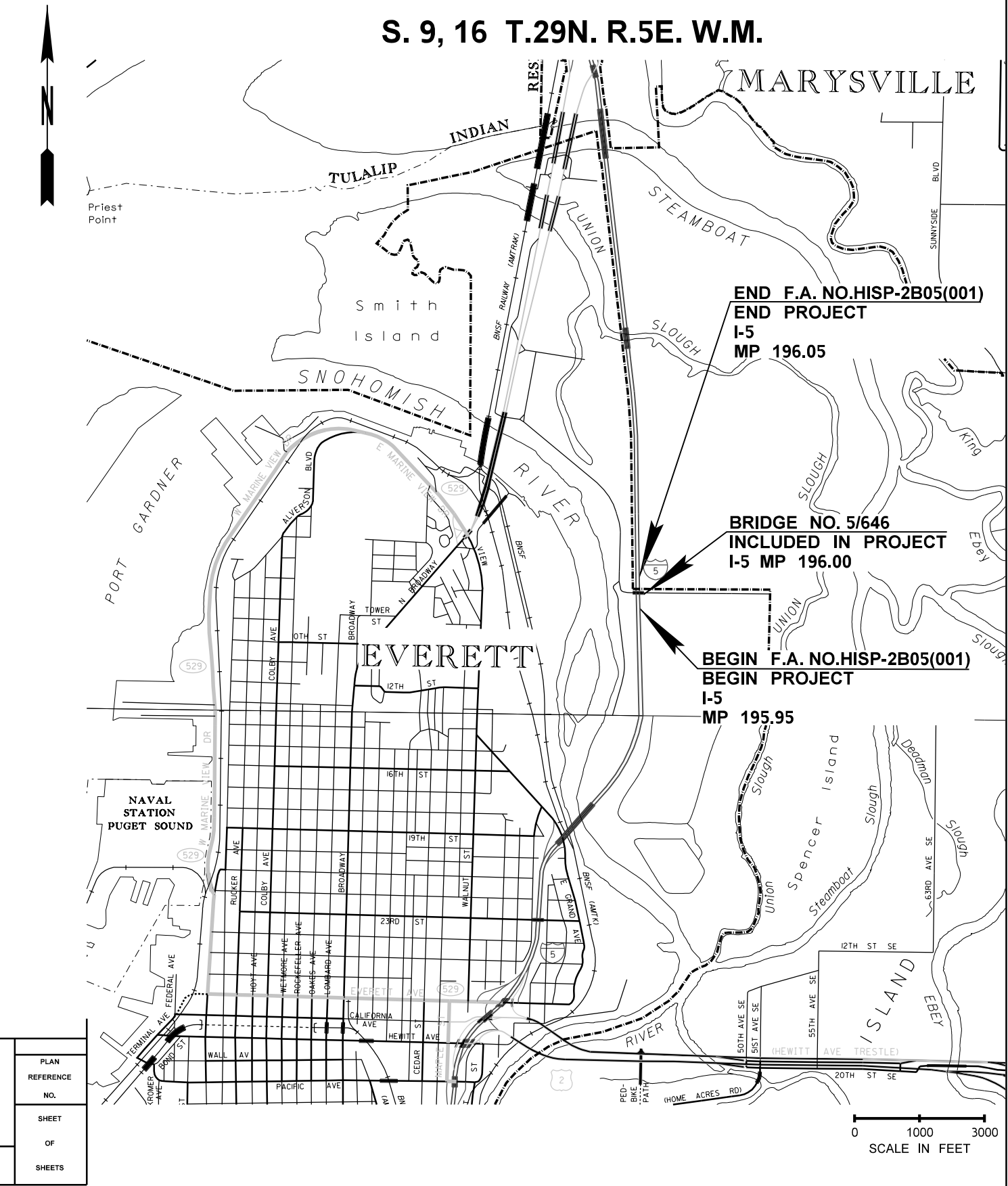


INDEX

SHEET NO.	PLAN REFERENCE NO.	TITLE
1	IN1	INDEX / VICINITY MAP
2	CT1	CERTIFICATION SHEET
3	SQ1	SUMMARY OF QUANTITIES
4	SP1	SITE PREPARATION PLAN
5	BA1	LAYOUT
6	BA2	TYPICAL SECTION AND REMOVAL SEQUENCE
7	BA3	REMOVAL DETAILS 1 OF 2
8	BA4	REMOVAL DETAILS 2 OF 2
9	BA5	SUPERSTRUCTURE CONSTRUCTION SEQUENCE
10	BA6	W42G GIRDER DETAILS 1 OF 3
11	BA7	W42G GIRDER DETAILS 2 OF 3
12	BA8	W42G GIRDER DETAILS 3 OF 3
13	BA9	INTERMEDIATE DIAPHRAGM DETAILS
14	BA10	END DIAPHRAGM DETAILS
15	BA11	BRIDGE DECK REINFORCEMENT PLAN
16	BA12	CURB AND RAILBASE DETAILS
17	BA13	PIER 3 DETAILS
18	BA14	PIER 4 DETAILS
19	BA15	EQ RESTRAINER BRACKET DETAILS
20	BA16	BARLIST
21	SN1	SIGNING DETAILS
22 - 36	TC1 - TC15	TRAFFIC CONTROL PLANS
37 - 40	DU1 - DU4	DETOUR PLAN

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.



FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_INV.dgn	REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	HISP-2B05(001)	PLAN REF NO.	IN1
TIME	11:17:25 AM	JOB NUMBER	22A012	LOCATION NO.				SHEET	1
DATE	5/24/2022	CONTRACT NO.						OF	40
PLOTTED BY	huttong							SHEETS	
DESIGNED BY	P. SCHNEIDER								
ENTERED BY	P. SCHNEIDER								
CHECKED BY	G. HUTTON								
PROJ. ENGR.	M. KAYANDA								
REGIONAL ADM.	M. COTTON	REVISION		DATE		BY			


PROJECT LICENSED PROFESSIONAL CERTIFICATES

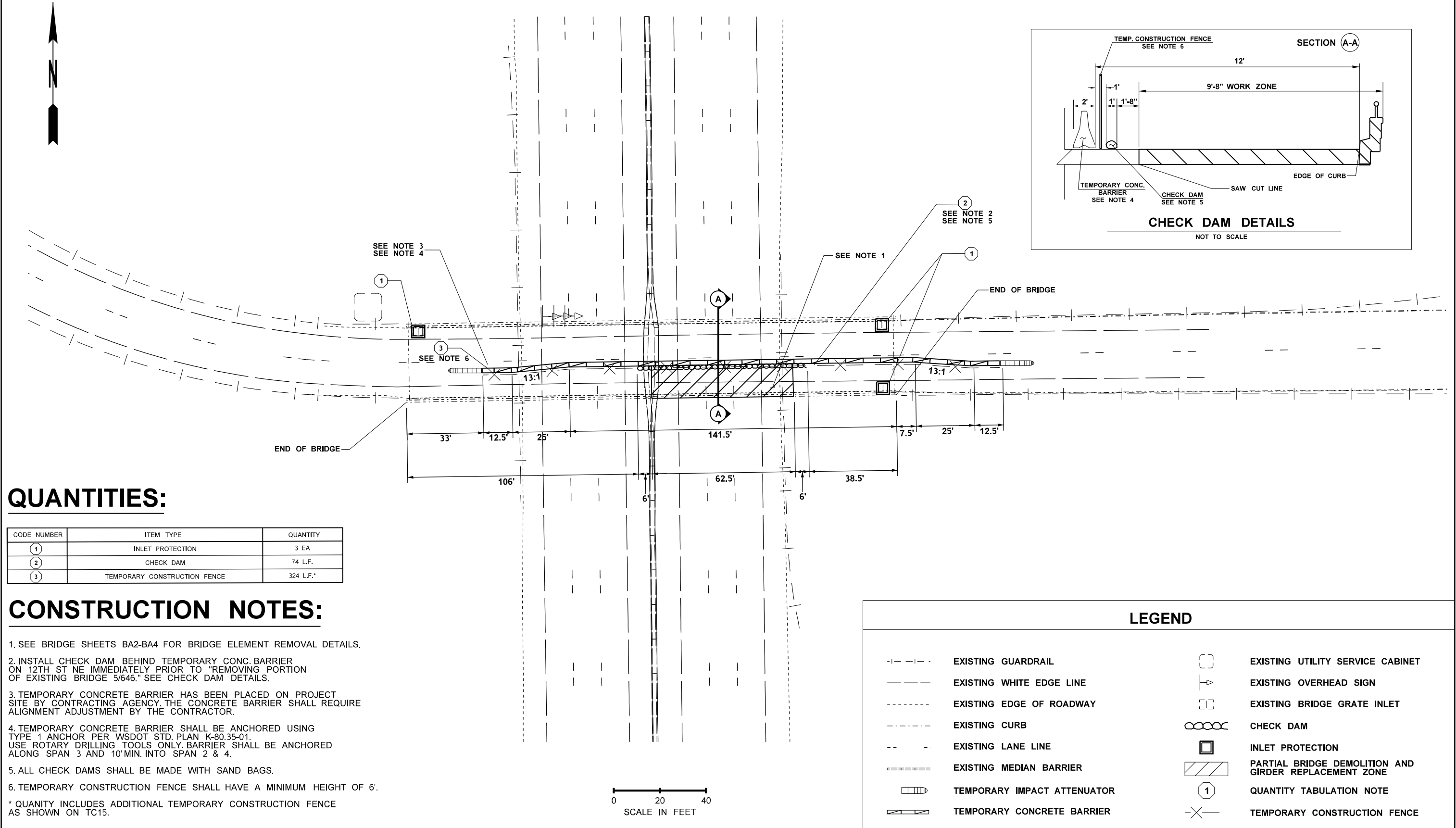
<div>Masoud Kayanda</div> <div>May 26, 2022</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Bijan Khaleghi</div> <div>May 26, 2022</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Geoffrey D. Swett</div> <div>May 26, 2022</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Richard Zeldenrust</div> <div>May 26, 2022</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>
<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>
<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>

NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_CT.dgn														 Washington State Department of Transportation		I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT		PLAN REF NO CT1
TIME	4:01:35 PM					REGION NO.	STATE	FED.AID PROJ.NO.										SHEET 2 OF 40 SHEETS
DATE	5/23/2022					10	WASH											
PLOTTED BY	huttong					JOB NUMBER												
DESIGNED BY	P. SCHNEIDER					22A012												
ENTERED BY	P. SCHNEIDER					CONTRACT NO.		LOCATION NO.										
CHECKED BY	G. HUTTON																	
PROJ. ENGR.	M. KAYANDA																	
REGIONAL ADM.	M. COTTON																	
		REVISION		DATE		BY				P.E. STAMP BOX		DATE		P.E. STAMP BOX		DATE		

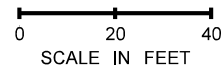


QUANTITIES:

CODE NUMBER	ITEM TYPE	QUANTITY
①	INLET PROTECTION	3 EA
②	CHECK DAM	74 L.F.
③	TEMPORARY CONSTRUCTION FENCE	324 L.F.*



CONSTRUCTION NOTES:

- SEE BRIDGE SHEETS BA2-BA4 FOR BRIDGE ELEMENT REMOVAL DETAILS.
 - INSTALL CHECK DAM BEHIND TEMPORARY CONC. BARRIER ON 12TH ST NE IMMEDIATELY PRIOR TO "REMOVING PORTION OF EXISTING BRIDGE 5/646." SEE CHECK DAM DETAILS.
 - TEMPORARY CONCRETE BARRIER HAS BEEN PLACED ON PROJECT SITE BY CONTRACTING AGENCY. THE CONCRETE BARRIER SHALL REQUIRE ALIGNMENT ADJUSTMENT BY THE CONTRACTOR.
 - TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED USING TYPE 1 ANCHOR PER WSDOT STD. PLAN K-80.35-01. USE ROTARY DRILLING TOOLS ONLY. BARRIER SHALL BE ANCHORED ALONG SPAN 3 AND 10' MIN. INTO SPAN 2 & 4.
 - ALL CHECK DAMS SHALL BE MADE WITH SAND BAGS.
 - TEMPORARY CONSTRUCTION FENCE SHALL HAVE A MINIMUM HEIGHT OF 6'.
- * QUANTITY INCLUDES ADDITIONAL TEMPORARY CONSTRUCTION FENCE AS SHOWN ON TC15.



LEGEND

- - -	EXISTING GUARDRAIL	□	EXISTING UTILITY SERVICE CABINET
---	EXISTING WHITE EDGE LINE	→	EXISTING OVERHEAD SIGN
----	EXISTING EDGE OF ROADWAY	□	EXISTING BRIDGE GRATE INLET
----	EXISTING CURB	○○○○	CHECK DAM
--	EXISTING LANE LINE	□	INLET PROTECTION
----	EXISTING MEDIAN BARRIER	▨	PARTIAL BRIDGE DEMOLITION AND GIRDER REPLACEMENT ZONE
▨▨▨	TEMPORARY IMPACT ATTENUATOR	①	QUANTITY TABULATION NOTE
▨▨▨	TEMPORARY CONCRETE BARRIER	-X-	TEMPORARY CONSTRUCTION FENCE

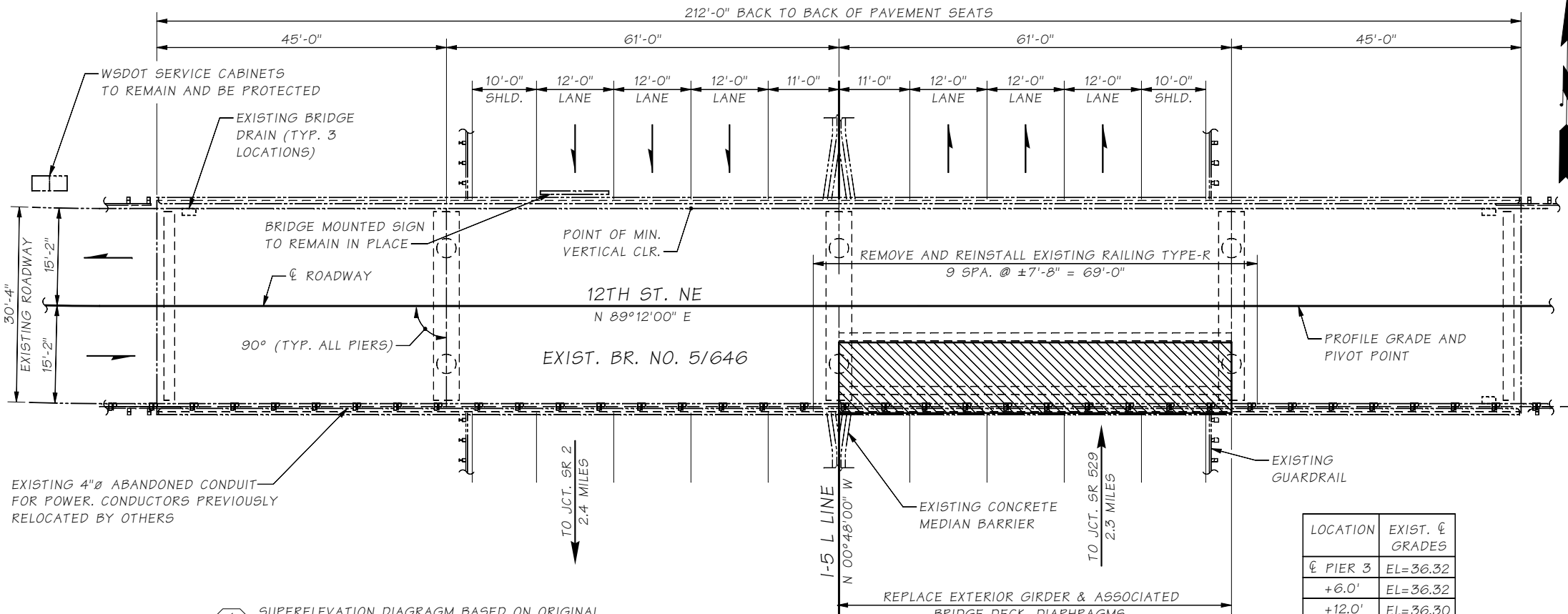
FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_SP.dgn	REGION NO.	STATE	FED.AID PROJ.NO.		DATE	DATE		I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT	Plot 1
TIME	4:01:41 PM	10	WASH							PLAN REF NO SP1
DATE	5/23/2022									SHEET 4 OF 40 SHEETS
PLOTTED BY	huttong									
DESIGNED BY	P. SCHNEIDER									
ENTERED BY	P. SCHNEIDER									
CHECKED BY	G. HUTTON									
PROJ. ENGR.	M. KAYANDA									
REGIONAL ADM.	M. COTTON	REVISION	DATE	BY					SITE PREPARATION	

SEC. 9 & 16, T. 29 N., R. 5 E., W.M.
SNOHOMISH COUNTY

I-5

GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022.
2. THIS STRUCTURE REPAIR WORK HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020 USING THE LIVE LOADS SPECIFIED ON THIS SHEET.
3. THE CONCRETE IN THE BRIDGE DECK SHALL BE CLASS 4000D. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. UNLESS OTHERWISE SHOWN IN THE PLANS THE CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 1 1/2" AT THE TOP OF BRIDGE DECK, 1" AT THE BOTTOM OF BRIDGE DECK AND 1 1/2" INCHES AT ALL OTHER LOCATIONS
5. THE CONTRACTOR SHALL SUBMIT A WORKING DRAWING BRIDGE DEMOLITION PLAN IN ACCORDANCE WITH SECTION 2-02.3(2)A1. THE WORKING DRAWING SHALL ALSO INCLUDE CALCULATIONS TO ENSURE THE STABILITY OF THE GIRDER AND PROTECTION OF THE PUBLIC, ROADWAYS AND ADJACENT AREAS DURING REMOVAL OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE BRIDGE AND ALL OF ITS COMPONENTS THROUGH ALL STAGES OF REMOVAL AND CONSTRUCTION.

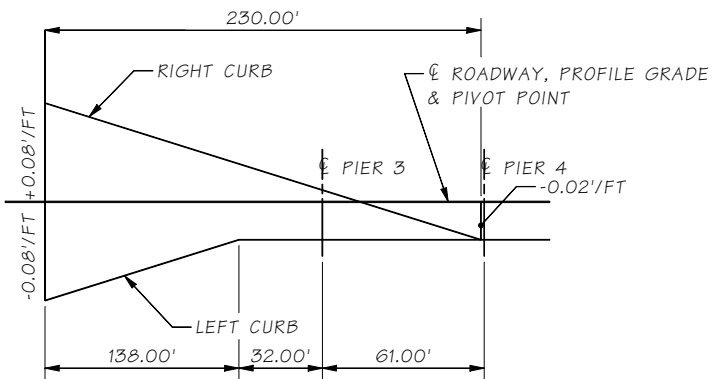


1 SUPERELEVATION DIAGRAM BASED ON ORIGINAL CONTRACT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY AND MATCH SLOPE OF DECK AT PIERS 3 AND 4

PLAN

EXISTING CONTRACTING AGENCY SUPPLIED BARRIER NOT SHOWN FOR CLARITY

LOCATION	EXIST. E GRADES
E PIER 3	EL=36.32
+6.0'	EL=36.32
+12.0'	EL=36.30
+18.0'	EL=36.29
+24.0'	EL=36.25
+30.0'	EL=36.20
+36.0'	EL=36.18
+42.0'	EL=36.12
+48.0'	EL=36.03
+54.0'	EL=35.97
E PIER 4	EL=35.89



SUPERELEVATION 1

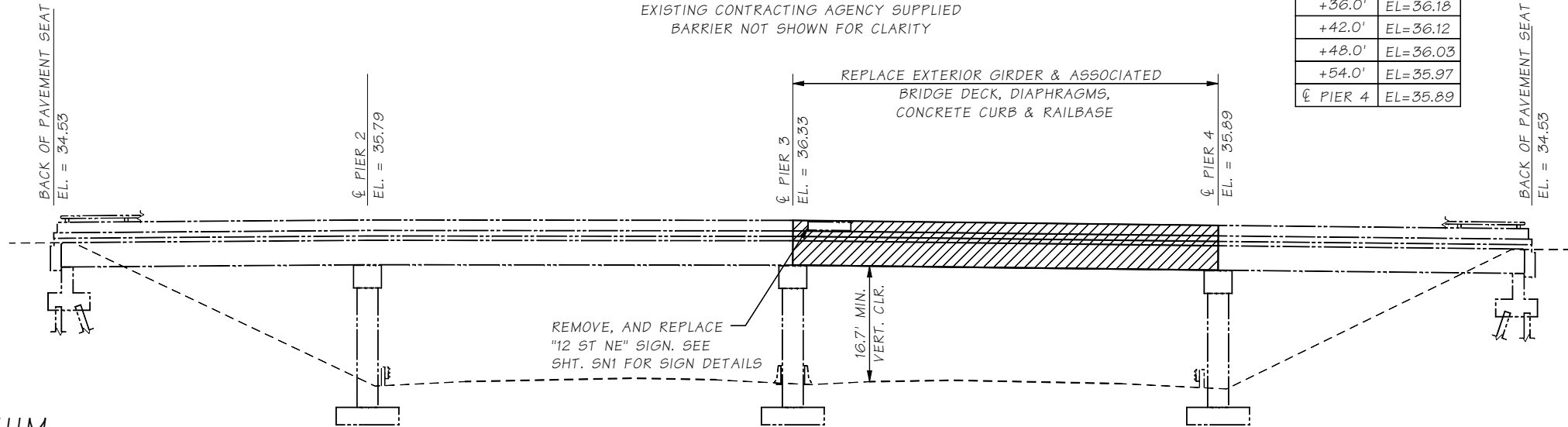
LEGEND

- IDENTIFIES SECTION, VIEW OR DETAIL
- B NB15 TAKEN OR SHOWN ON BRIDGE SHEET NB15
- B TAKEN OR SHOWN ON THE SAME SHEET

P.C. GIRDER (W42G)
REPLACEMENT
LOADING: HS-20 OR
TWO 24K AXLES AT 4' CENTERS

DATUM
NAVD 88

ELEVATION



SR 5 FILE NO. SHEET BA1

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\LAYOU	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP		10	WASH.			
Designed By	Swett, GD						
Checked By	Zeldenrust, RP						
Detailed By	wrenn, M						
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist							
DATE	REVISION	BY	APP'D	CONTRACT NO.			

Tue May 24 10:07:23 2022

PE: STAMP BOX
SEE SHEET CT1
DATE:

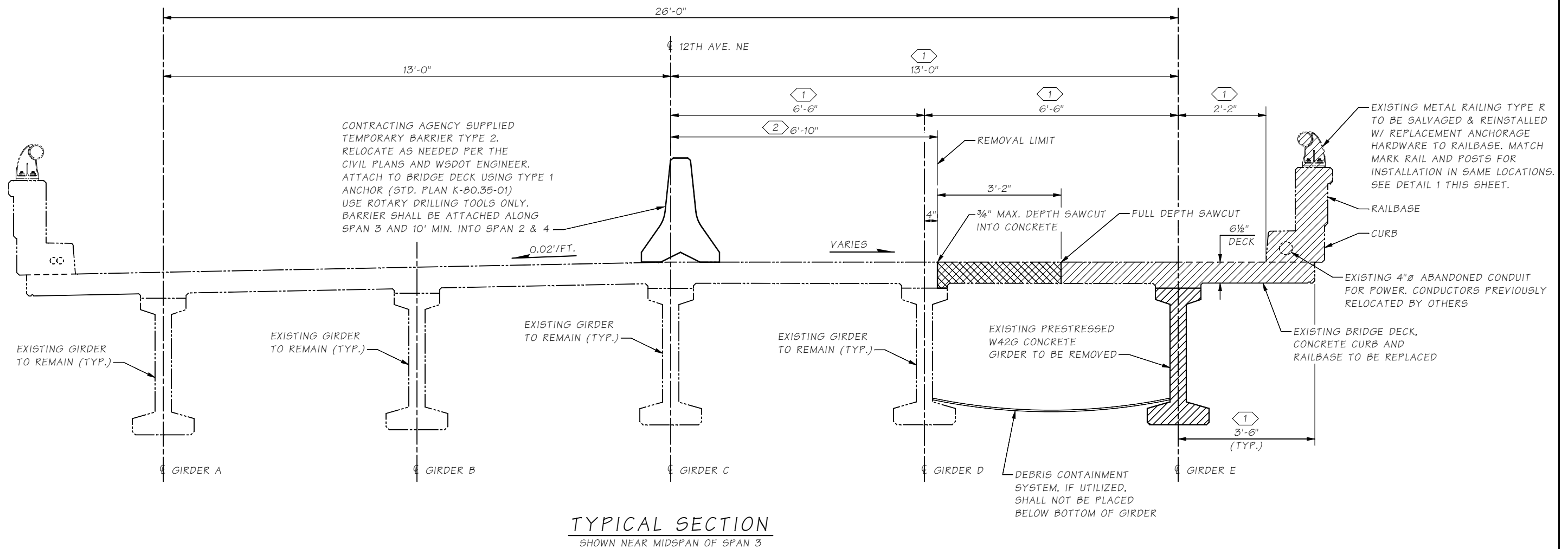
BRIDGE AND STRUCTURES OFFICE

PE: STAMP BOX
SEE SHEET CT1
DATE:

Washington State
Department of Transportation

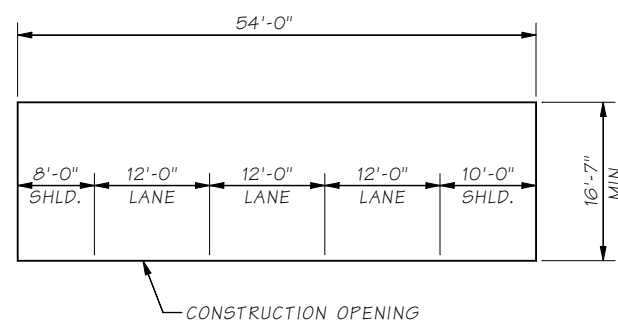
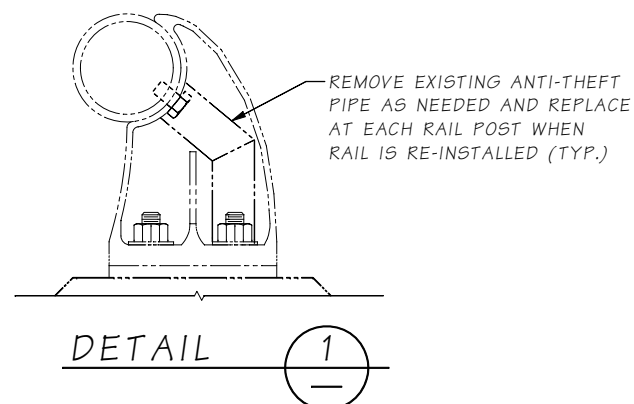
I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646
LAYOUT

BRIDGE SHEET NO.
BA1
SHEET 5 OF 40 SHEETS





REMOVAL NOTES:

1. THE CONTRACTOR SHALL BRACE AND SUPPORT THE DAMAGED GIRDER AT ALL TIMES DURING ALL STAGES OF REMOVAL.



NORTHBOUND I-5
CONSTRUCTION OPENING

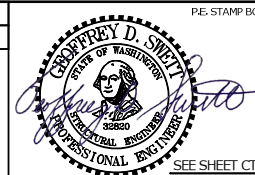
-  SPECIAL DEMOLITION IN ACCORDANCE WITH SECTION 2-02.3(2)A2 AND AS AMENDED IN THE SPECIAL PROVISIONS

 CONVENTIONAL DEMOLITION

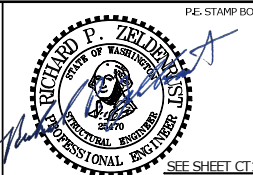
① DIMENSIONS BASED ON ORIGINAL CONSTRUCTION PLANS AND DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY AS NEEDED

② CONTRACTOR SHALL ESTABLISH CENTERLINE OF BRIDGE AND SET OFFSET TO REMOVAL LIMIT/SAWCUT LINE TO DIMENSION SHOWN.

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\TYP SECT & REMOVAL.wnd								
Supervisor	Zeldenrust, RP					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET	TOTAL SHEETS
Designed By	Swett, GD					10	WASH.			
Checked By	Zeldenrust, RP									
Detalled By	Wrenn, M									
Bridge Projects Engr.						JOB NUMBER 22A012				
Prelim. Plan By						CONTRACT NO.				
Architect/Specialist		DATE	REVISION		BY	APPD				



BRIDGE
AND
STRUCTURES
OFFICE



**Washington State
Department of Transportation**

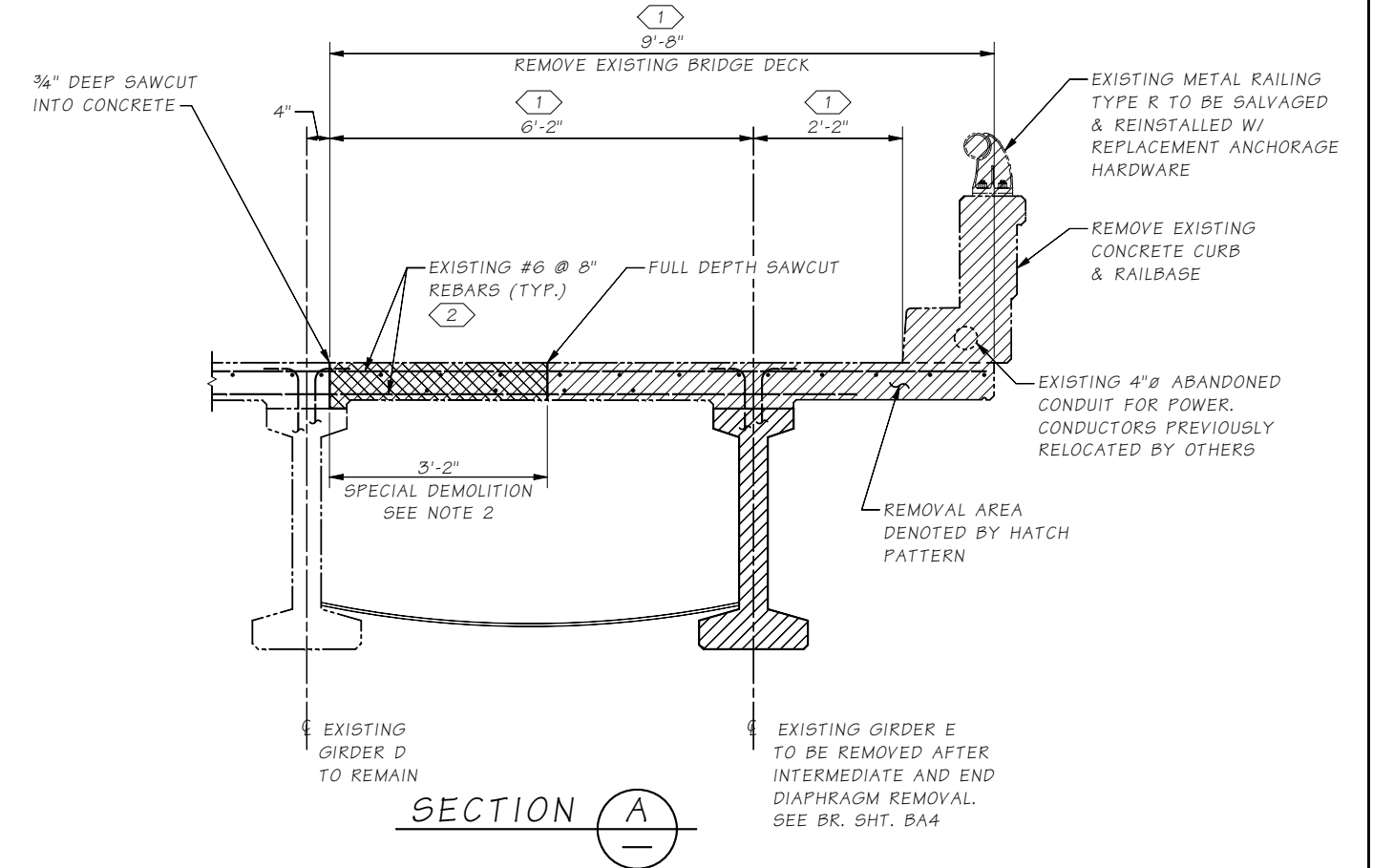
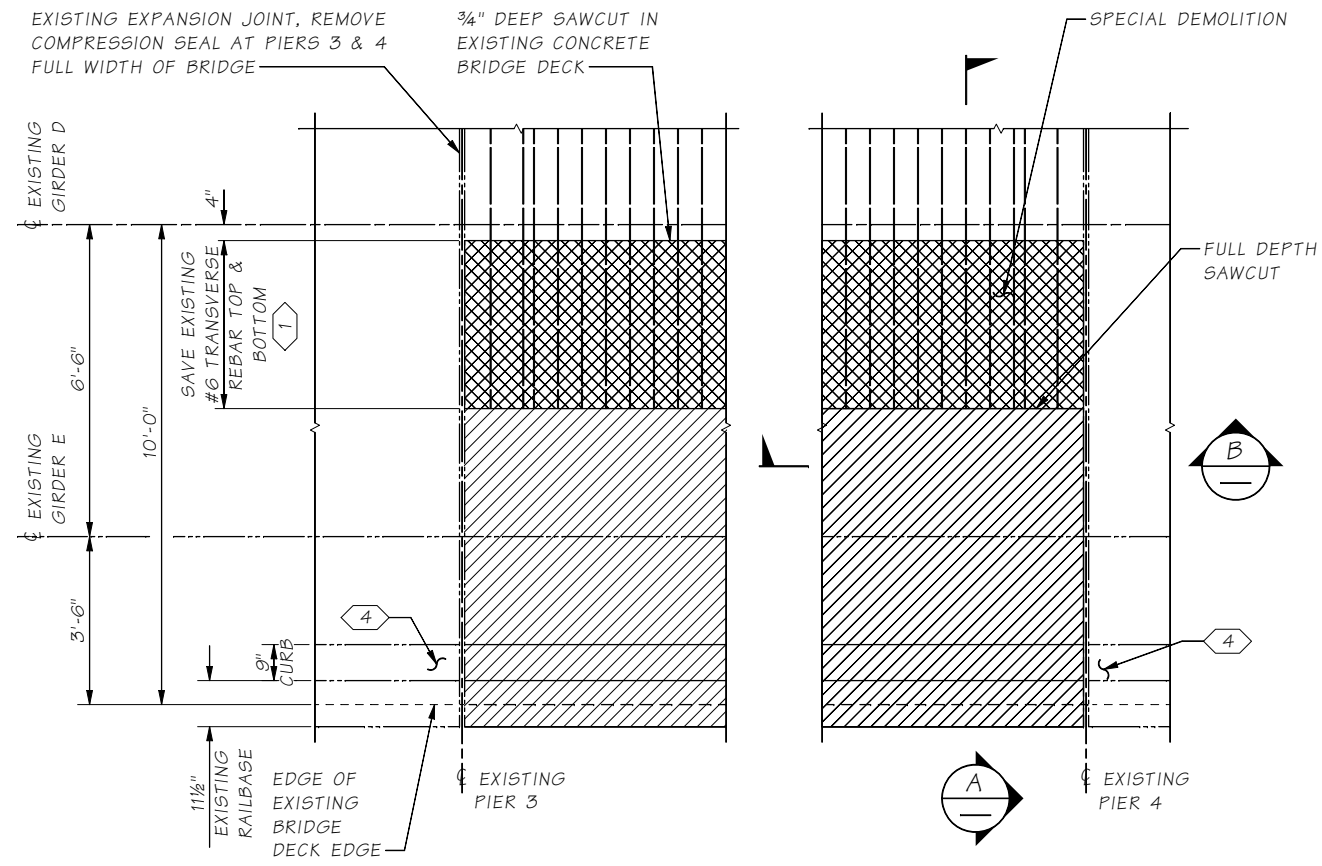
I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646

TYPICAL SECTION AND REMOVAL SEQUENCE

BRIDGE
SHEET
NO.
A2

SHEET
6
OF
40
SHEETS

SR 5 FILE NO. SHEET BA3



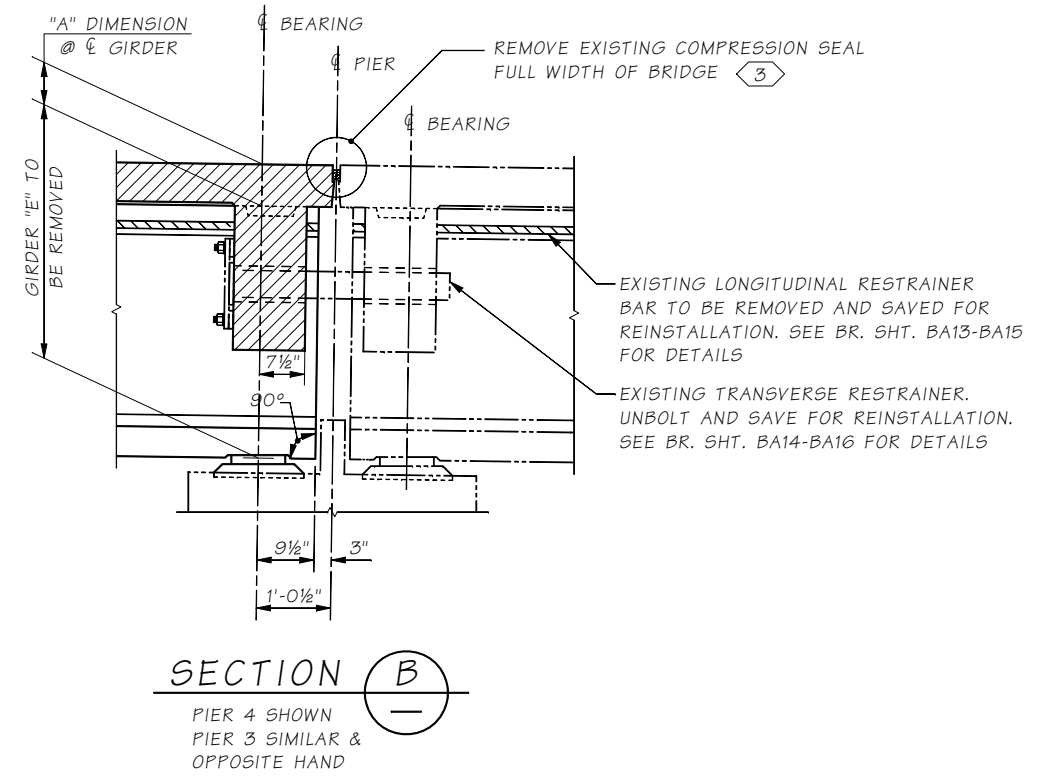
BRIDGE DECK, CONCRETE CURB & RAILBASE

SHOWN WITH EXISTING CURB & RAILBASE BETWEEN PIERS 3 & 4.
METAL RAILING NOT SHOWN FOR CLARITY

- SPECIAL DEMOLITION IN ACCORDANCE WITH SECTION 2-02.3(2)A2 AND AS AMENDED IN THE SPECIAL PROVISIONS.
- CONVENTIONAL DEMOLITION

NOTES

- 1 DIMENSIONS BASED ON ORIGINAL CONSTRUCTION PLANS AND DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY AS NEEDED.
- 2 SAVE TRANSVERSE #6 REBAR 3'-0" MINIMUM PAST 3/4" DEEP SAWCUT LINE FOR TOP AND BOTTOM MAT STEEL.
- 3 THE PORTION OF COMPRESSION SEAL IN THE OPEN ROADWAY LANE SHALL BE LEFT IN PLACE DURING CONSTRUCTION UNTIL THE WORK IS COMPLETE AND NEW FULL WIDTH COMPRESSION SEAL IS BEING INSTALLED.
- 4 DEMO EXISTING CURB/RAIL AS NEEDED TO REMOVE EXISTING 4" DIAMETER CONDUIT EXPANSION FITTING



Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\REMOVAL 1.wnd					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP						10	WASH.			
Designed By	Swett, GD										
Checked By	Zeldenrust, RP										
Detailed By	wrenn, M										
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						

PE: STAMP BOX

BRIDGE AND STRUCTURES OFFICE

SEE SHEET CT1

PE: STAMP BOX

SEE SHEET CT1

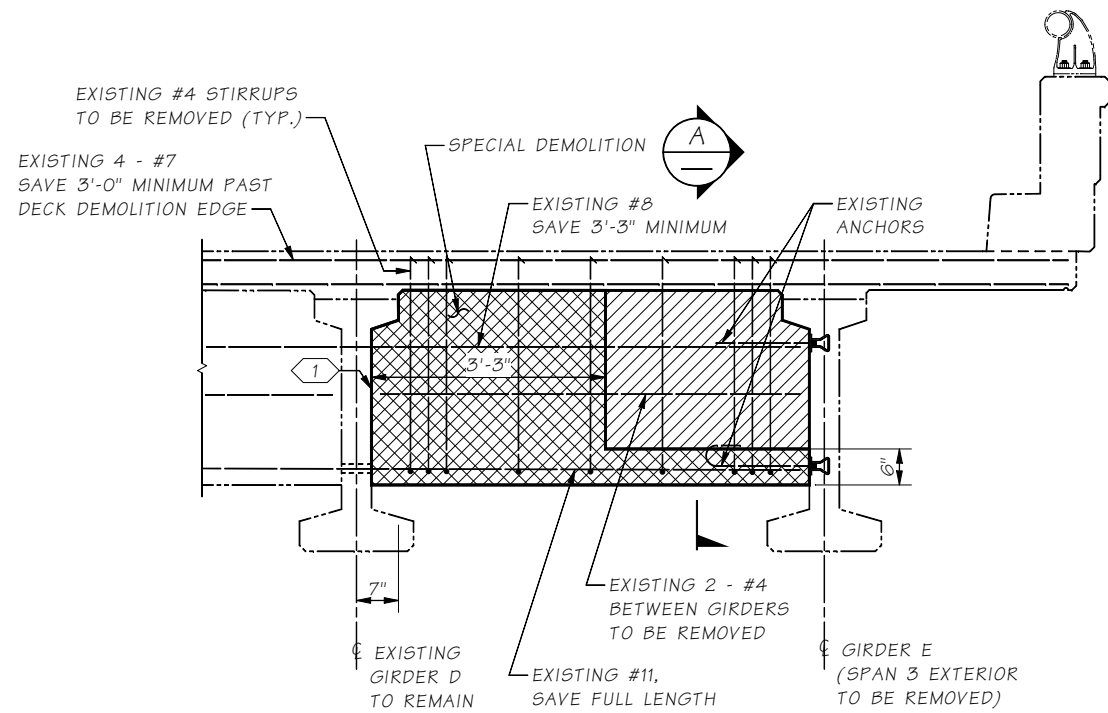
Washington State
Department of Transportation

I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646

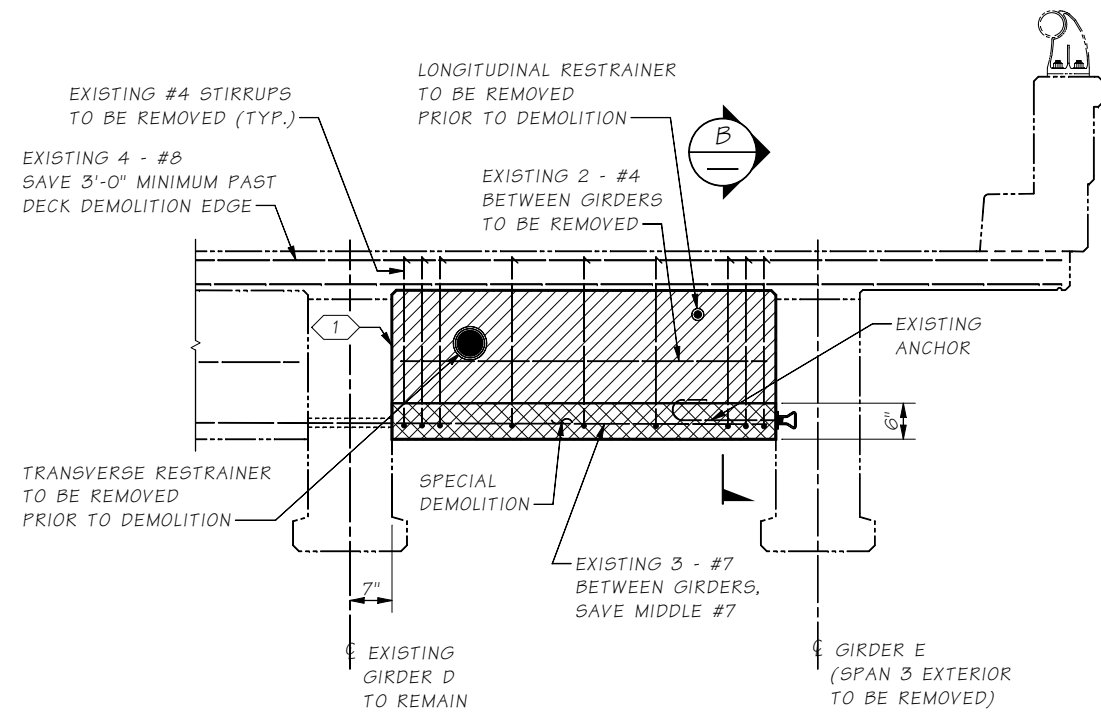
REMOVAL DETAILS
1 OF 2

BRIDGE SHEET NO. BA3

SHEET 7 OF 40 SHEETS



INTERMEDIATE
DIAPHRAGM REMOVAL



END DIAPHRAGM REMOVAL
AT PIERS 3 & 4



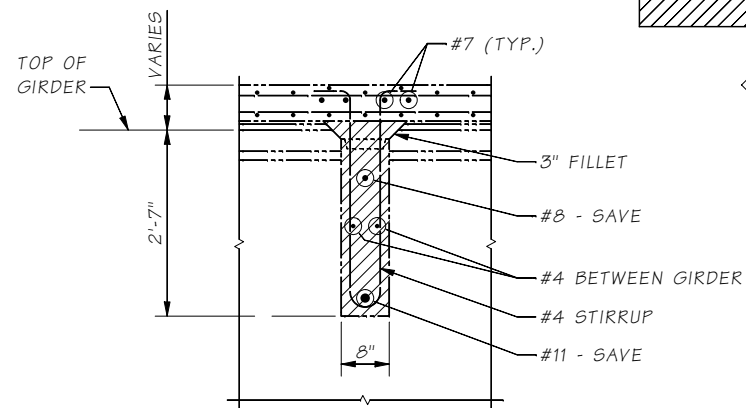
SPECIAL DEMOLITION IN ACCORDANCE WITH SECTION 2-02.3(2)A2



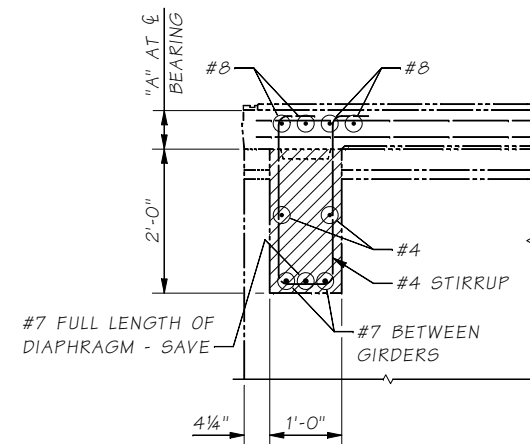
CONVENTIONAL DEMOLITION



CARE SHALL BE TAKEN NOT DAMAGE EXISTING GIRDER TO REMAIN



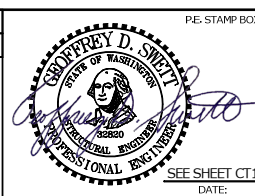
SECTION A



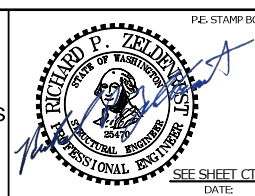
SECTION B

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\REMOVAL 2.wnd					
Supervisor	Zeldenrust, RP						
Designed By	Swett, GD						
Checked By	Zeldenrust, RP						
Detailed By	wrenn, M						
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APP'D		

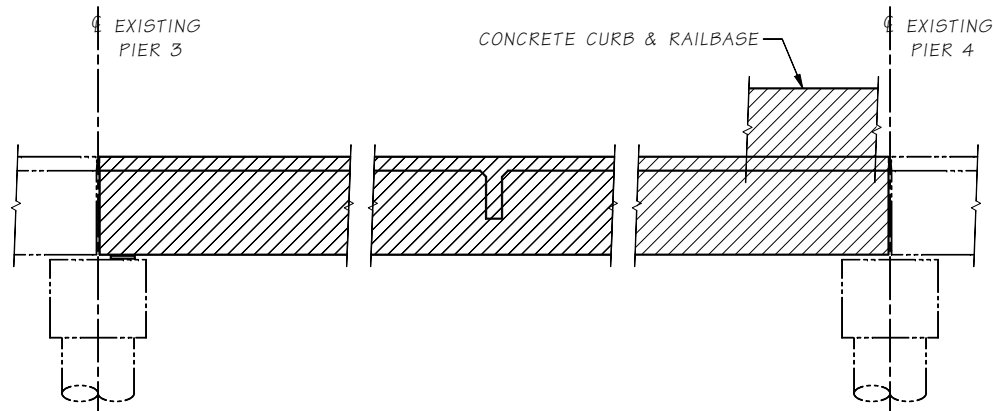
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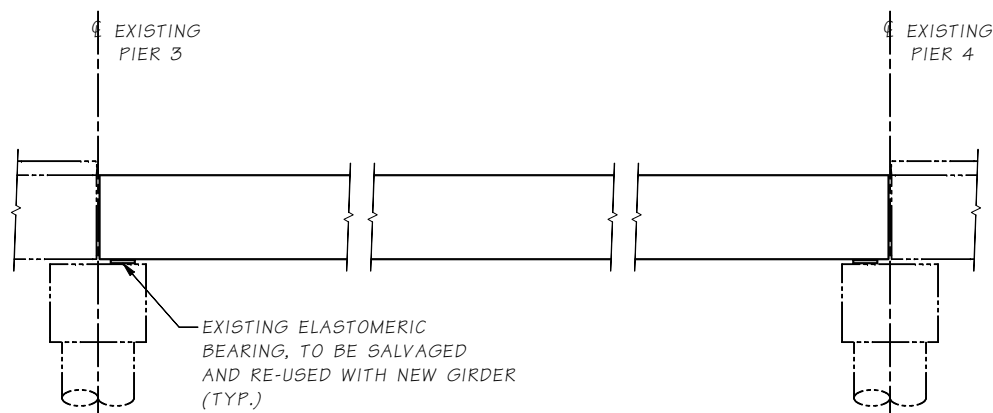
BRIDGE AND STRUCTURES OFFICE



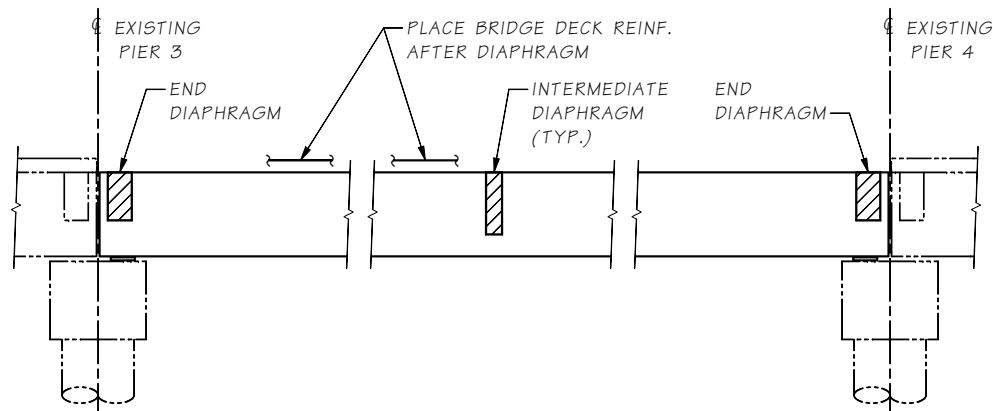
I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT BR. NO. 5/646		BRIDGE SHEET NO.
REMOVAL DETAILS 2 OF 2		SHEET 8 OF 40 SHEETS



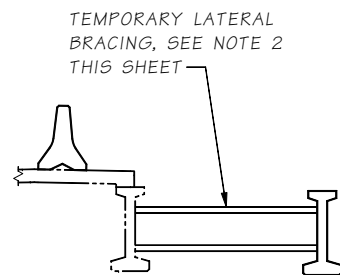
STAGE 1
REMOVE PORTIONS OF EXISTING BRIDGE



STAGE 2
SET GIRDER ON PIERS
INSTALL TEMPORARY LATERAL BRACING



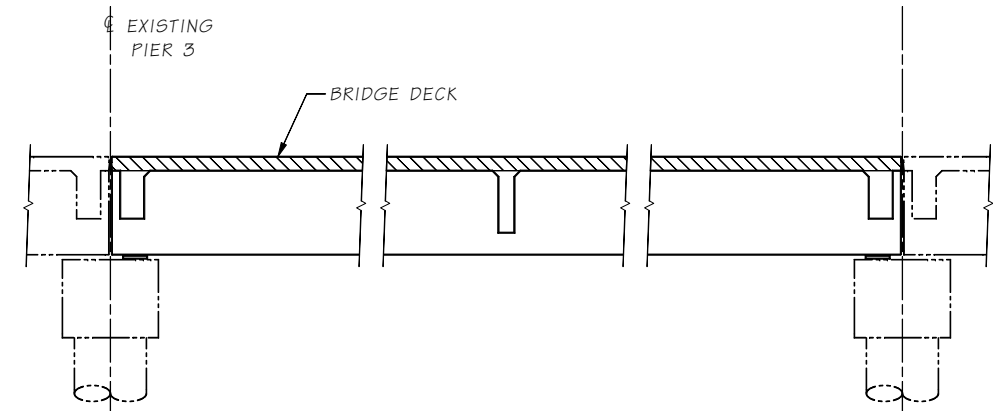
STAGE 3
CAST DIAPHRAGMS EXCEPT CLOSURES
& PLACE BRIDGE DECK REINFORCEMENT



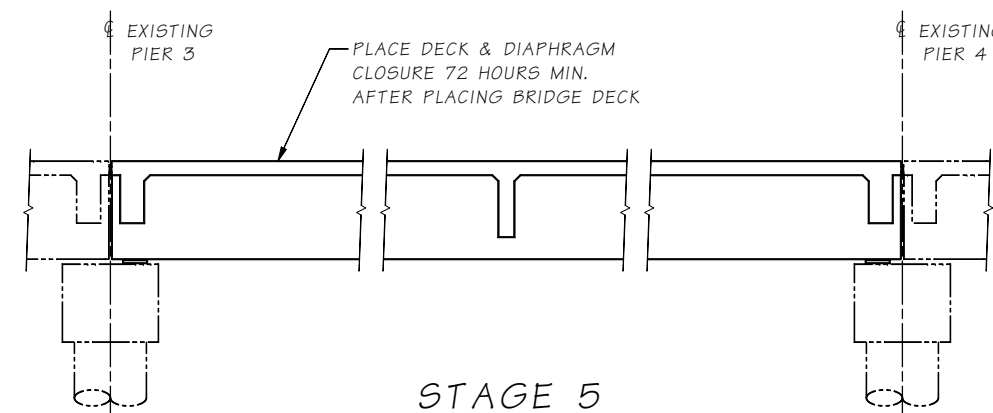
SECTION

NOTES:

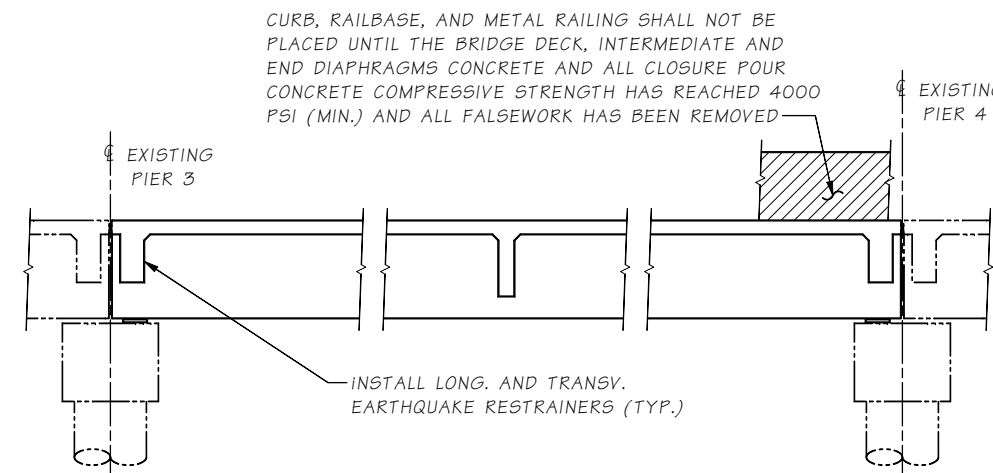
- SEE GENERAL NOTE 5 ON BRIDGE SHEET BA1.
- TEMPORARY LATERAL BRACING FOR THE REPLACEMENT PRESTRESSED CONCRETE GIRDER SHALL RESIST FORCE EFFECTS DUE TO ALL LOADS FROM SUPERSTRUCTURE CONSTRUCTION SEQUENCE STAGES 2 TO 5. THE CONTRACTOR SHALL SUBMIT BRACING PLAN AND PROCEDURE IN ACCORDANCE WITH SECTIONS 6-02.3(17)F AND 6-02.3(25)N.



STAGE 4
CAST BRIDGE DECK EXCEPT CLOSURE

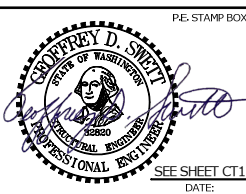


STAGE 5
CAST BRIDGE DECK & DIAPHRAGM CLOSURES

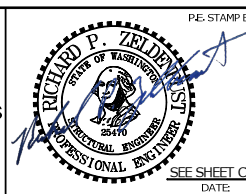


STAGE 6
CAST CURB & RAILBASE

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\CONSTR SEQ.wnd						
Supervisor	Zeldenrust, RP							
Designed By	Swett, GD							
Checked By	Zeldenrust, RP							
Detailed By	wrenn, M							
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APP'D			

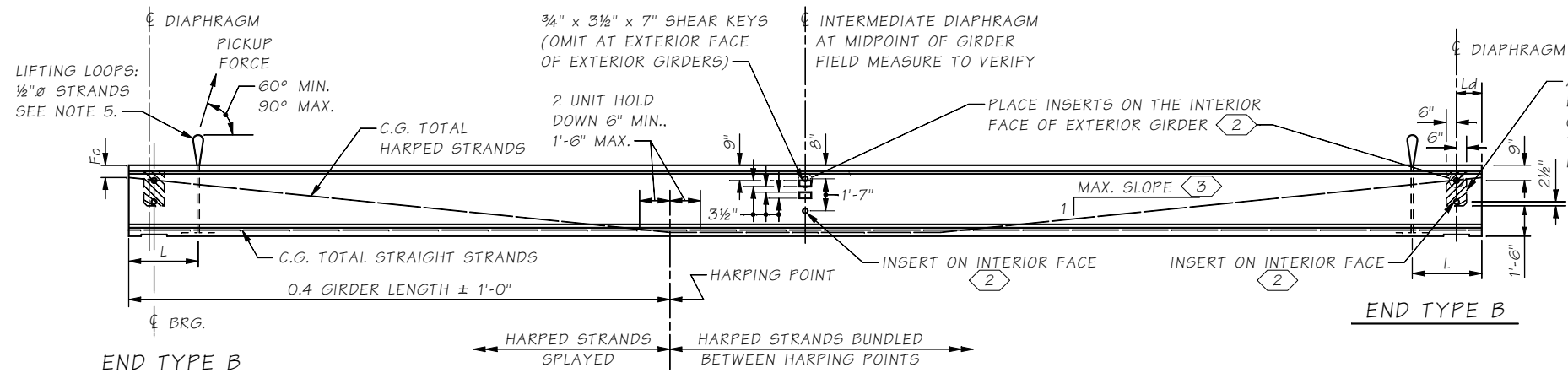


BRIDGE AND STRUCTURES OFFICE

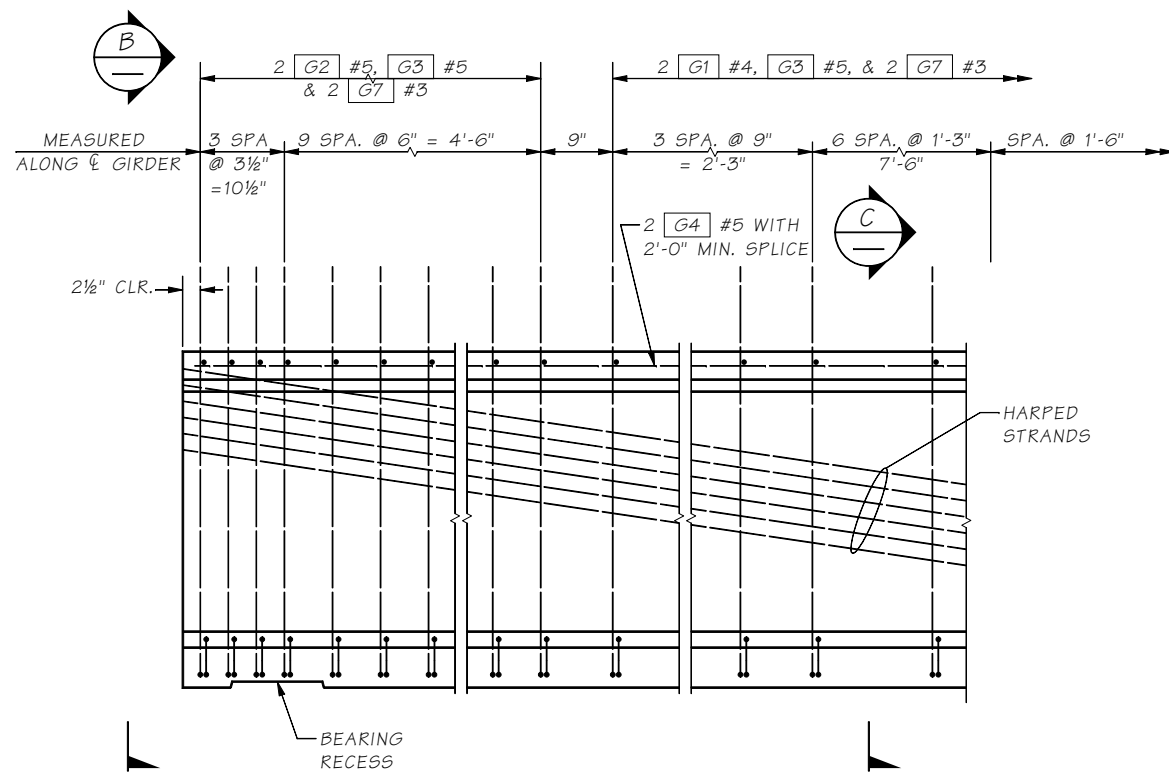


I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646
SUPERSTRUCTURE CONSTRUCTION
SEQUENCE

BRIDGE SHEET NO.
BA5
SHEET
9
OF
40
SHEETS

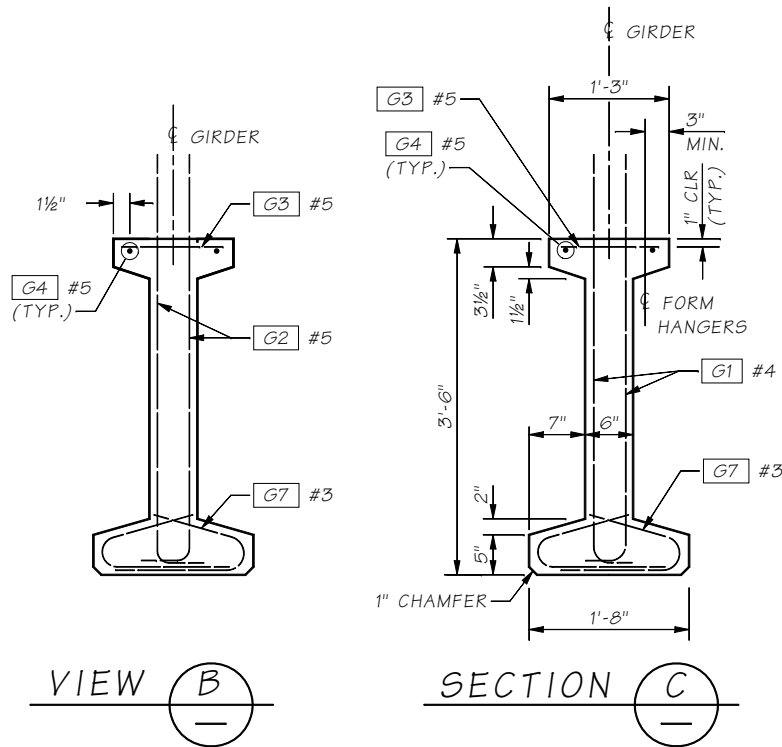


GIRDER ELEVATION



TYPICAL END ELEVATION

END TYPE B SHOWN



VIEW B

SECTION C

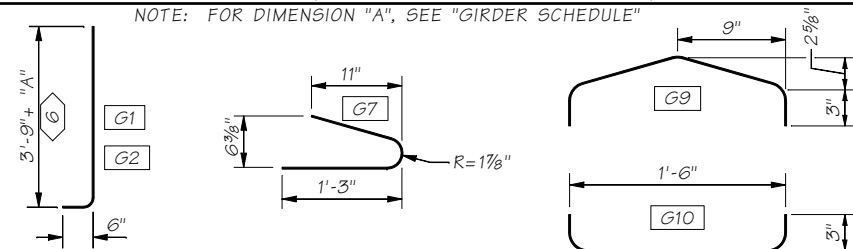
GIRDER NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6" LOW RELAXATION STRANDS (AASHTO M203 GRADE 270.)
3. FOR END TYPE B CUT ALL STRANDS 1" BELOW CONCRETE SURFACE AND GROUT WITH AN APPROVED EPOXY GROUT.
4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
5. LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS.
6. CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED Laterally TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
8. INSERTS SHALL BE 1"Ø MEADOWBURKE MX-3 HI-TENSILE, 1"Ø MEADOWBURKE FX-19 FERRULE INSERT, 1"Ø x 5½" WILLIAMS F22 OPEN FERRULE INSERT, 1"Ø x 4½" DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.

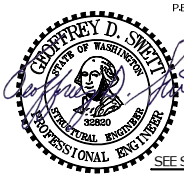
NOTES:

- 2 OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW.
- 3 MAXIMUM SLOPE FOR STRANDS:
6 : 1 FOR EACH ½"Ø STRAND OR
8 : 1 FOR EACH 0.6"Ø STRAND
- 5 PAIRS OF G7 BARS, OR G9 AND G10 BARS, MAY BE USED INTERCHANGEABLY AS BOTTOM FLANGE TIES
- 6 SHALL BE CHECKED FOR EFFECT OF VERTICAL CURVE

MARK	LOCATION	SIZE
G1	GIRDER STIRRUPS	4
G2	GIRDER END STIRRUPS	5
G3	GIRDER TOP FLANGE	5 STR.
G4	GIRDER LONGIT. FULL LENGTH	5 STR.
G7	GIRDER BOT. FLANGE TIES	3
G9	GIRDER BOT. FLANGE TIES	3
G10	GIRDER BOT. FLANGE TIES	3

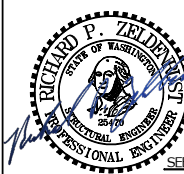
BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)
NOTE: FOR DIMENSION "A", SEE "GIRDER SCHEDULE"

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\W42 GIRDER 1.wnd
Supervisor	Zeldenrust, RP	
Designed By	Swett, GD	
Checked By	Zeldenrust, RP	
Detailed By	wrenn, M	
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		
DATE	REVISION	BY APP'D



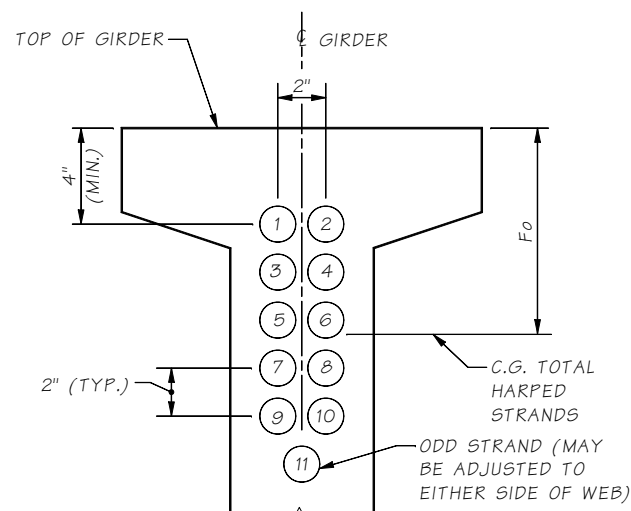
PE: STAMP BOX

BRIDGE AND STRUCTURES OFFICE



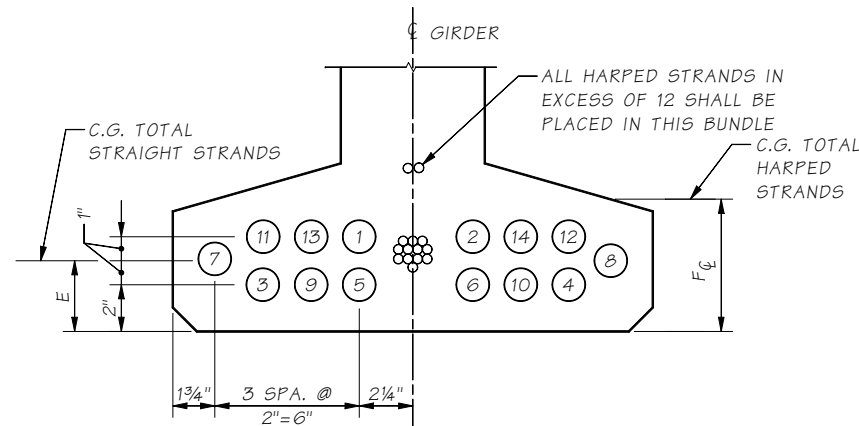
PE: STAMP BOX

Washington State
Department of TransportationI-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646W42G GIRDER
DETAILS 1 OF 3BRIDGE SHEET NO.
BA6
SHEET 10 OF 40 SHEETS



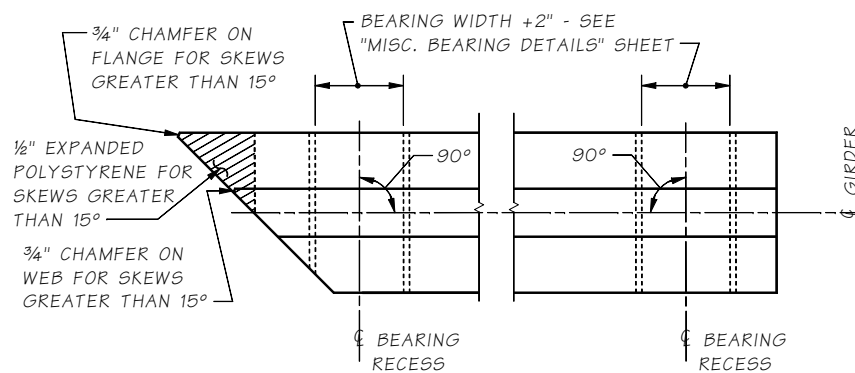
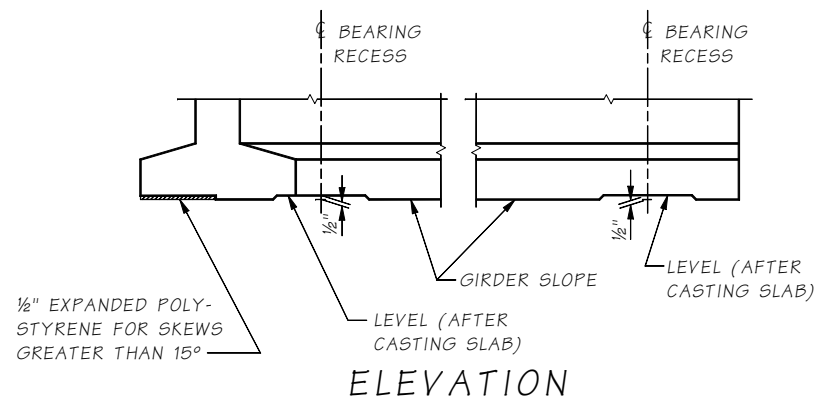
STRAND PATTERN
AT GIRDER END

HARPED STRAND LOCATION SEQUENCE
SHALL BE AS SHOWN (1), (2) ETC.

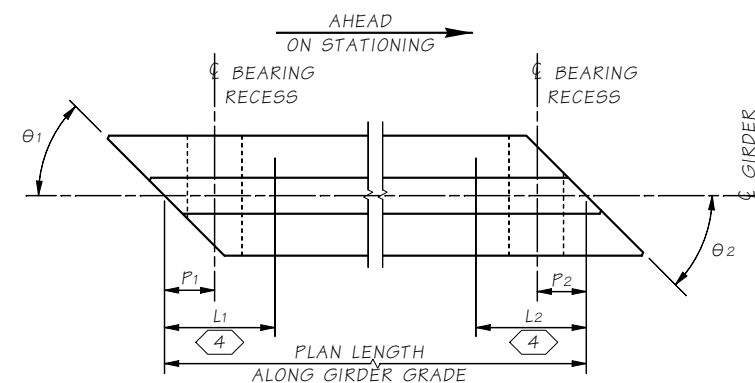


STRAND PATTERN AT $\frac{1}{4}$ SPAN

STRAIGHT STRAND LOCATION SEQUENCE
SHALL BE AS SHOWN (1), (2) ETC.



PLAN
BEARING RECESS AND
BOTTOM FLANGE SPALL PROTECTION



END 1

END 2

GIRDER SCHEDULE LEGEND

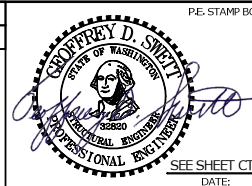
NOTES:

4 L1 AND L2 ARE SHIPPING SUPPORT LOCATIONS AT LEADING AND TRAILING ENDS, RESPECTIVELY

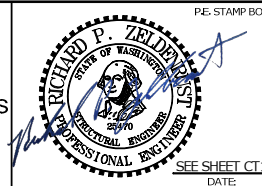
GIRDER SCHEDULE

DIMENSION "A" AT ∇ BEARINGS = 7½ IN. (TOP OF GIRDER TO TOP OF CONCRETE DECK)																										
SPAN	GIRDER	END 1 TYPE	END 2 TYPE	L	L1	L2	θ1 (DEG.)	θ2 (DEG.)	P1	P2	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMP. STRENGTH		NO. OF STRANDS			SHIPPING & HANDLING			LOCATION OF C.G. STRANDS			C	D @ 40 DAYS	D @ 120 DAYS	Ld
												@ FINAL F'C (KSI)	@ RELEASE F'CI (KSI)	HARPED	STRAIGHT	TEMPORARY	MAX. MIDSPAN VERT. DEFL. AT SHIPPING	Ks MIN. SHIPPING SUPPORT ROT. SPRING CONSTANT (KIP-IN/RAD)	Wcc MIN. SHIPPING SUPPORT CNTR.-CNTR WHEEL SPACING	E	F∇	Fo				
3	E	B	B	3'-0"	3'-6"	3'-6"	90°	90°	11¾"	11¾"	60'-10½"	6.5	4.0	4	8	2	1¾"	40000	6'-0"	2¾"	4"	5"	½"	¾"	1½"	11¾"

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\w42 GIRDER 2.wnd									
Supervisor	Zeidenrust, RP					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By	Swett, GD					10	WASH.				
Checked By	Zeidenrust, RP										
Detailed By	Wrenn, M										
Bridge Projects Engr.						JOB NUMBER 22A012					
Prelim. Plan By						CONTRACT NO.					
Architect/Specialist	DATE	REVISION			BY	APPD					



BRIDGE
AND
STRUCTURES
OFFICE

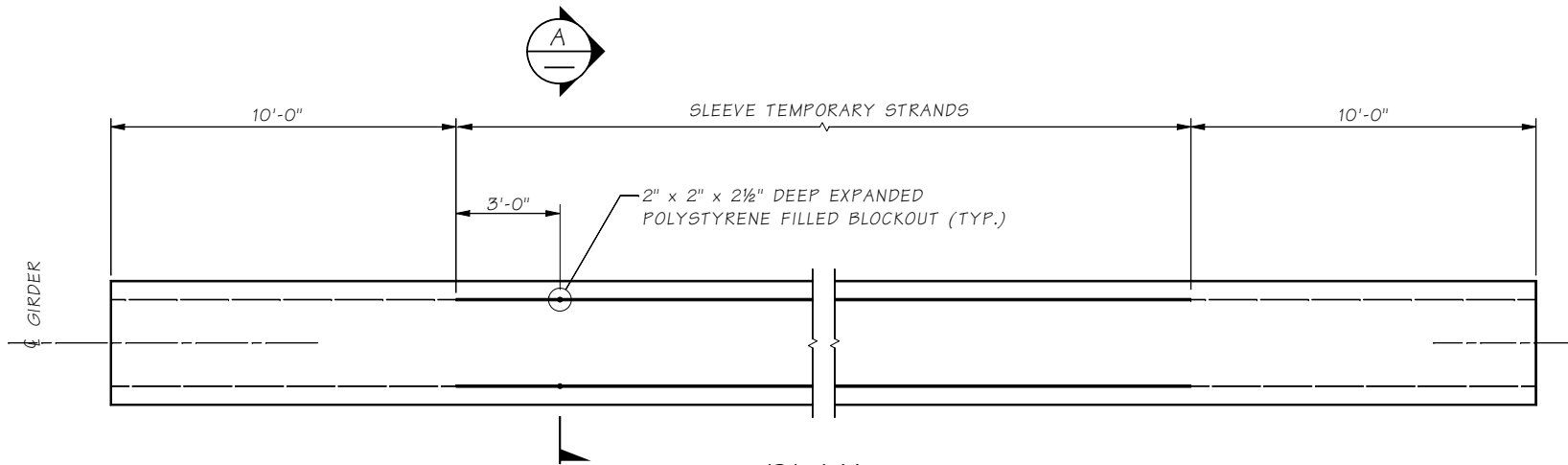


I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646

W42G GIRDER
DETAILS 2 OF 3

BRIDGE
SHEET
NO.
BA7

SHEET
11
OF
40
SHEETS

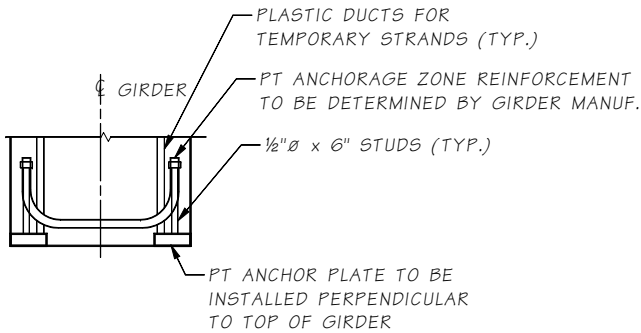


PLAN
PRETENSIONED TEMPORARY
TOP STRANDS

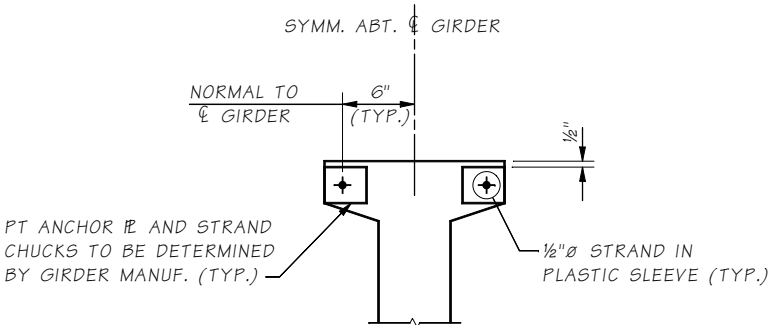
POST-TENSIONED TEMPORARY TOP STRANDS SIMILAR, EXCEPT 10'-0" LENGTH OF BONDING OCCURS AT ONE END ONLY. THE OPPOSING END IS ANCHORED WITH PLATES AND STRAND CHUCKS. SEE "GIRDER SCHEDULE" FOR NUMBER OF TEMPORARY STRANDS REQUIRED.

TEMPORARY STRAND
CUTTING SEQUENCE

1. ERECT AND BRACE GIRDERS.
2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE NEAREST THE CENTERLINE AND WORKING OUTWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS DURING CUTTING.
4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

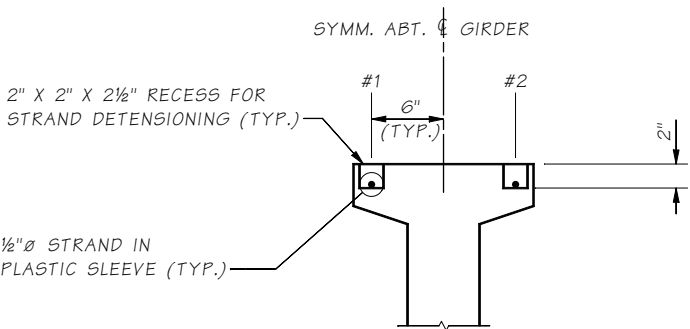


PLAN
TEMPORARY STRAND
POST-TENSIONED ALTERNATE



END VIEW
TEMPORARY STRAND
POST-TENSIONED ALTERNATE

ADJUST G4 BARS TO
CLEAR THE STEEL PLATE



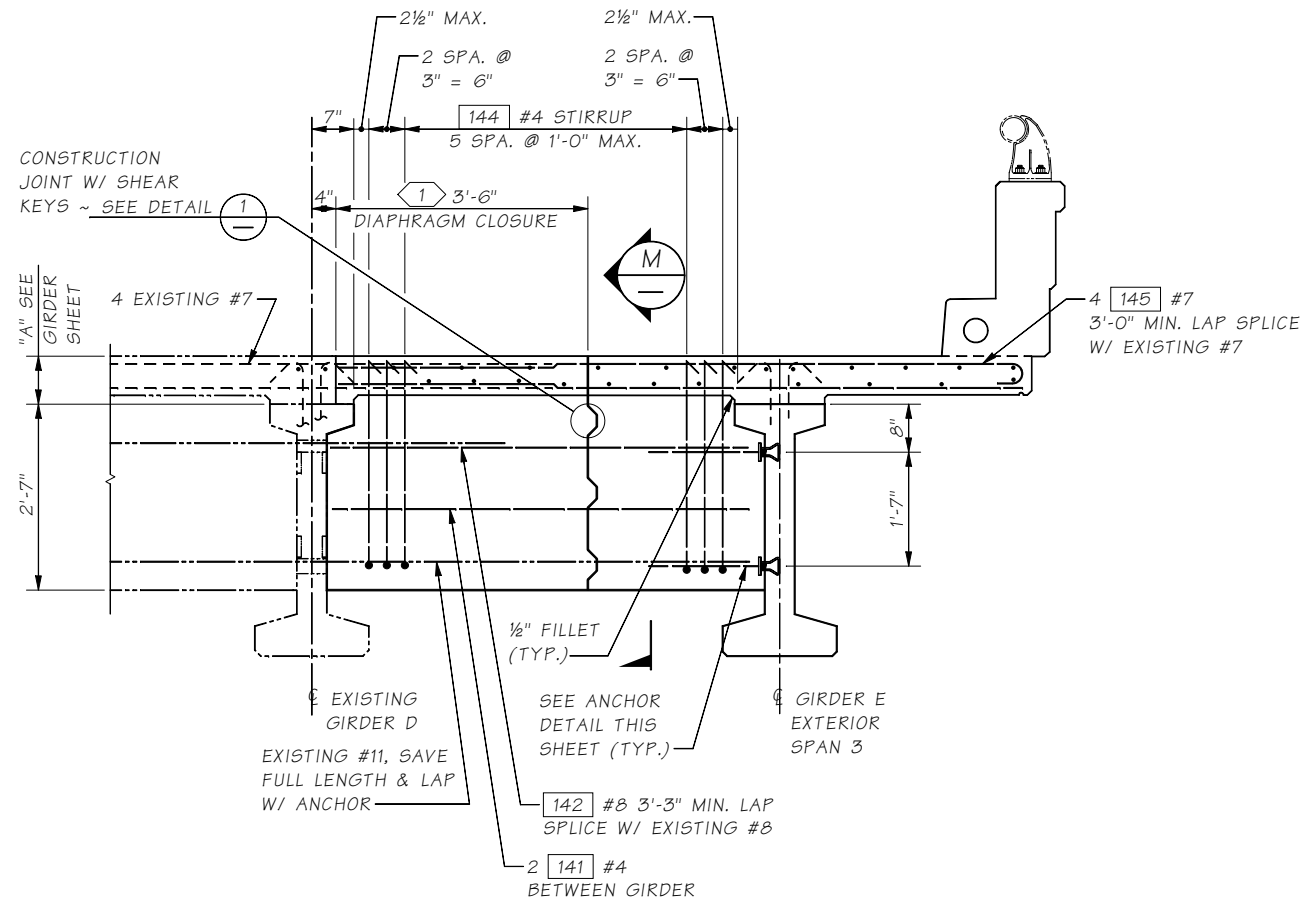
SECTION A

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\w42 GIRDER 3.wnd							
Supervisor	Zeldenrust, RP			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By	Swett, GD			10	WASH.				
Checked By	Zeldenrust, RP								
Detailed By	wrenn, M								
Bridge Projects Engr.					JOB NUMBER				
Prelim. Plan By					22A012				
Architect/Specialist					CONTRACT NO.				
	DATE	REVISION	BY	APP'D					

Tue May 24 10:07:42 2022

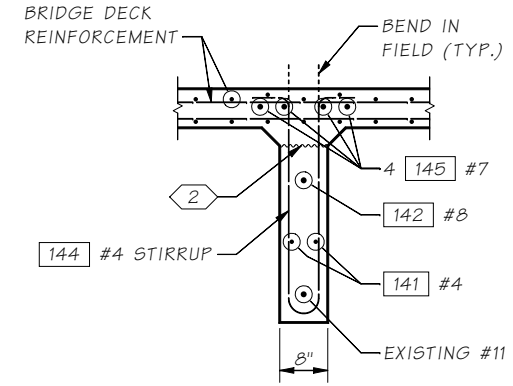
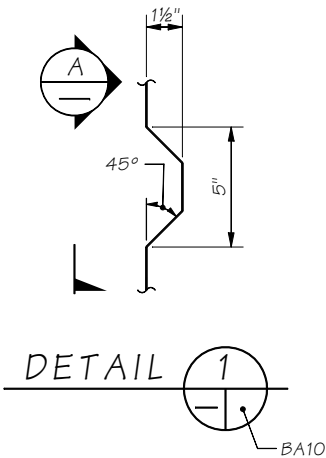
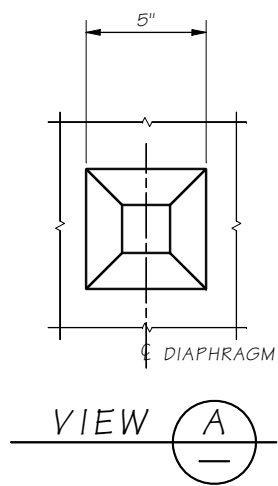
	PE: STAMP BOX BRIDGE AND STRUCTURES OFFICE		PE: STAMP BOX		I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT BR. NO. 5/646	BRIDGE SHEET NO. B48
					W42G GIRDER DETAILS 3 OF 3	SHEET 12 OF 40 SHEETS

SR 5 FILE NO. SHEET BA9

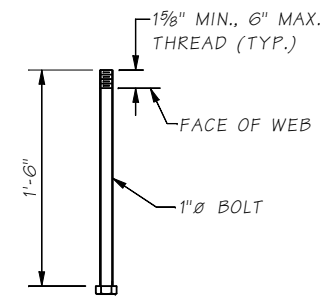


ELEVATION
INTERMEDIATE DIAPHRAGM

1 CLOSURE IN THE DIAPHRAGM TO BE CAST WITH DECK CLOSURE



SECTION M

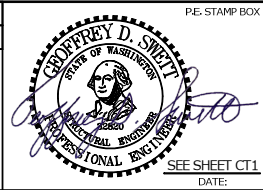


ANCHOR DETAIL
A.S.T.M. A-307

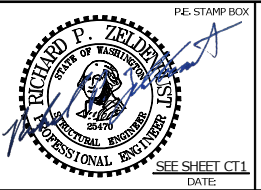
NOTES:

2 CONSTRUCTION JOINT WITH ROUGHENED SURFACE

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\INTER DIAPH.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP					10	WASH.			
Designed By	Swett, GD									
Checked By	Zeldenrust, RP									
Detailed By	wrenn, M									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					



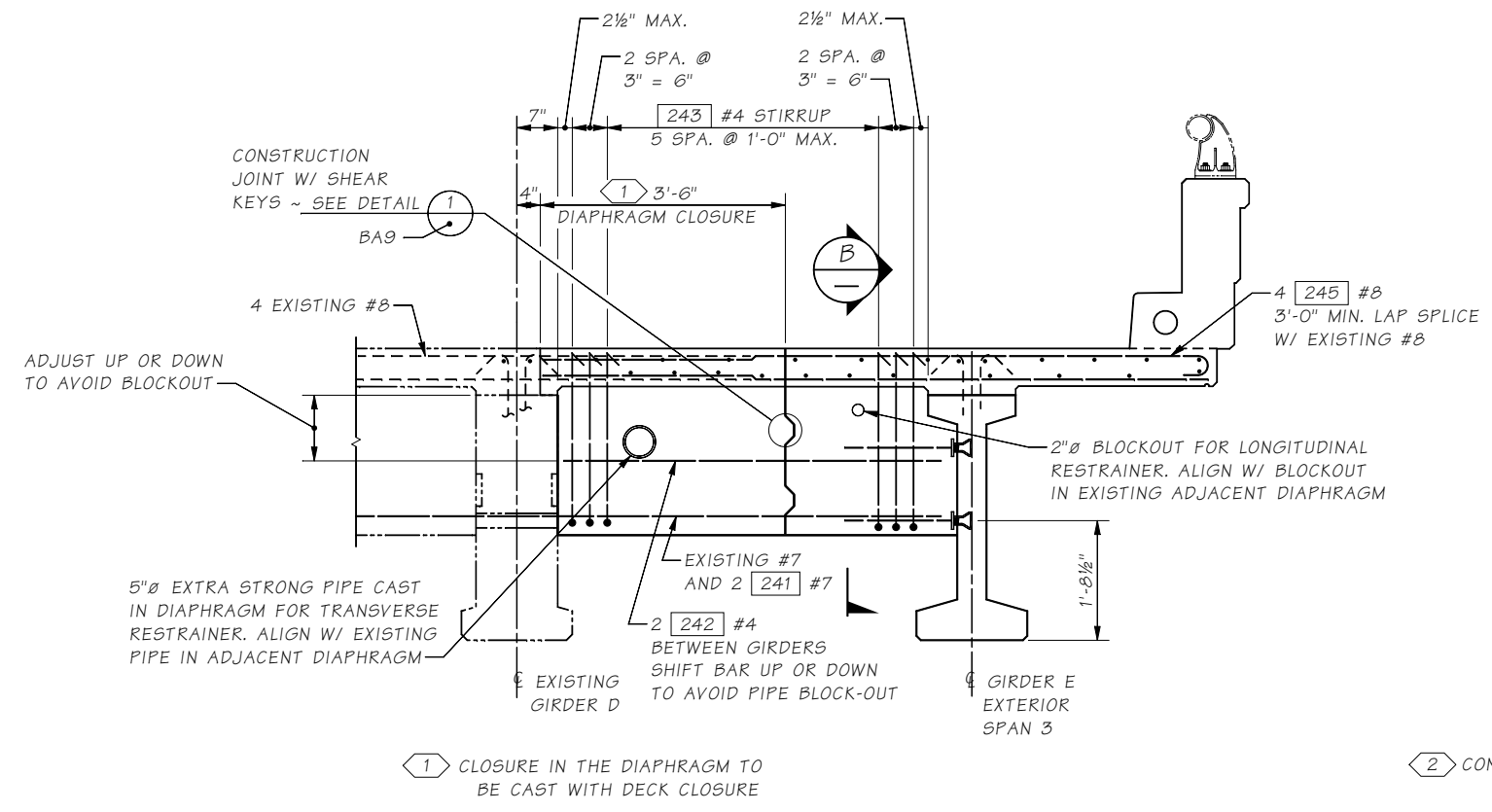
BRIDGE AND STRUCTURES OFFICE



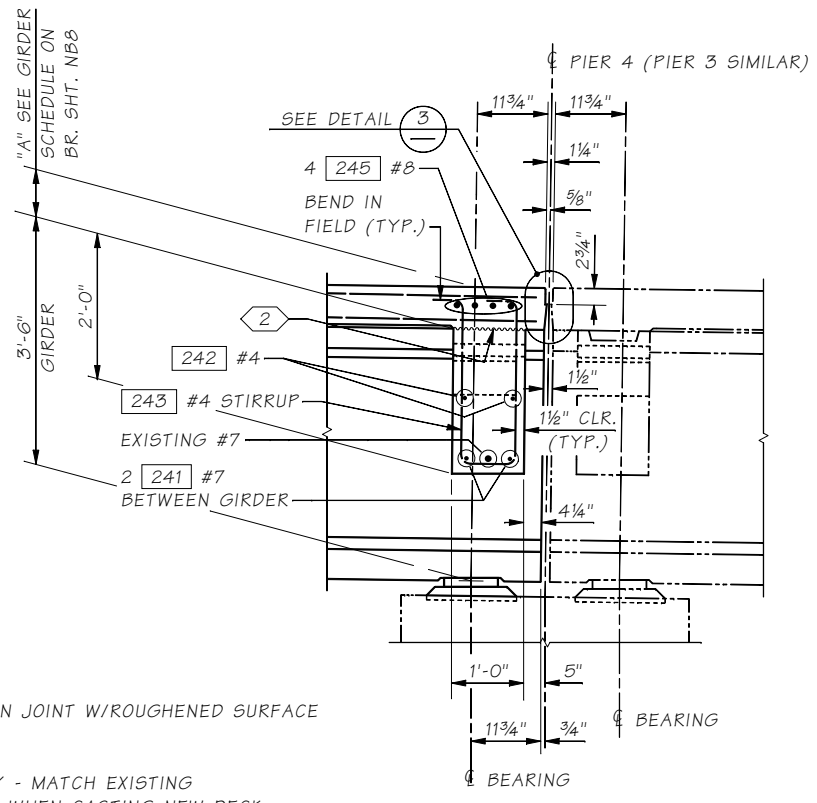
I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646
INTERMEDIATE DIAPHRAGM
DETAILS

BRIDGE SHEET NO.
BA9
SHEET 13 OF 40 SHEETS

SR 5 FILE NO. SHEET BA10

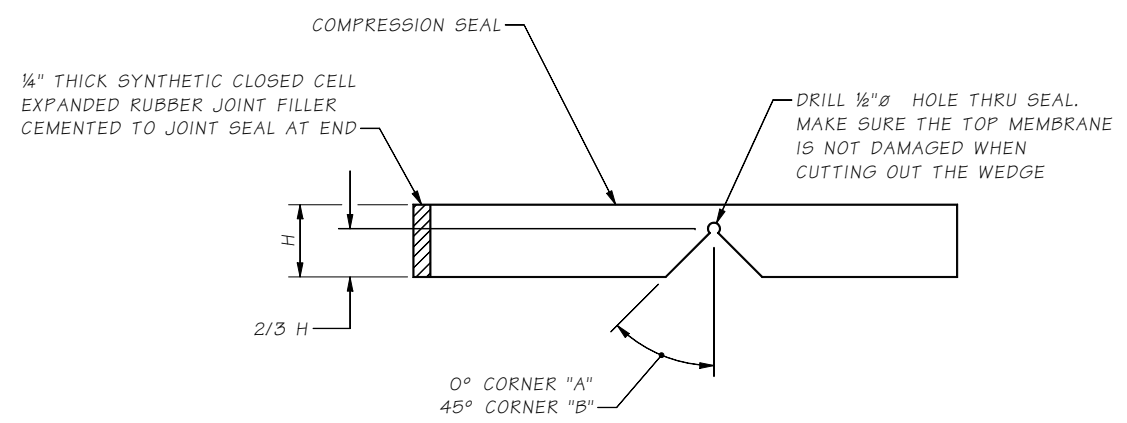


END DIAPHRAGM AT INTERMEDIATE PIER
SHOWN DETAIL AT PIER 3, SIMILAR AT PIER 4

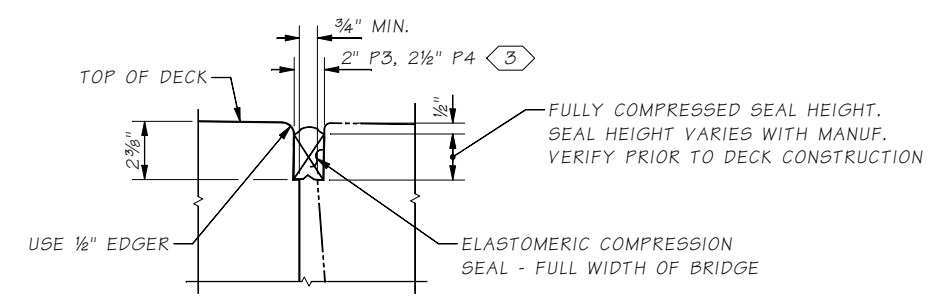


- 2 CONSTRUCTION JOINT W/ROUGHENED SURFACE
- 3 FIELD VERIFY - MATCH EXISTING JOINT WIDTH WHEN CASTING NEW DECK

SECTION B
TRANSV. & LONG. RESTRAINERS NOT SHOWN FOR CLARITY



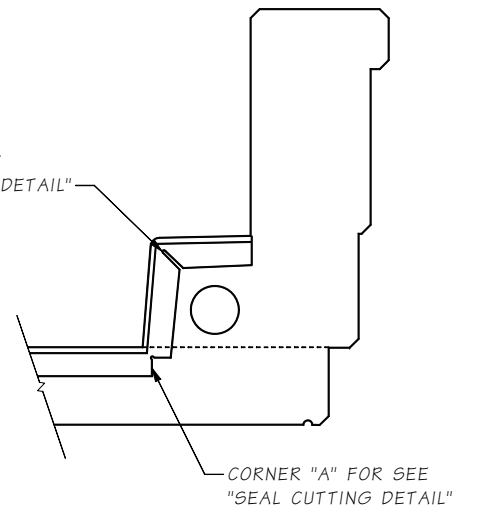
SEAL CUTTING DETAIL



DETAIL 3
RUN COMPRESSION SEAL UP FACE AND ALONG CURB. SEE SEAL CUTTING DETAIL THIS SHEET.

COMPRESSION SEAL TABLE

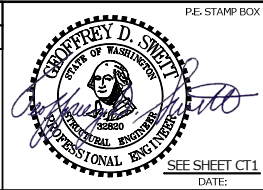
D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-3000	3"	WA-300	3"



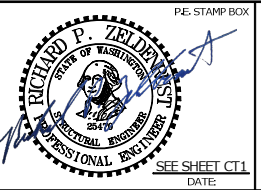
SEAL AT CURB DETAIL

TESTING SHALL BE PER ASTM D2628 PRIOR TO USE OF ANY COMPRESSION SEAL

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\END DIAPH.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP					10	WASH.			
Designed By	Swett, GD									
Checked By	Zeldenrust, RP									
Detailed By	wrenn, M									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					



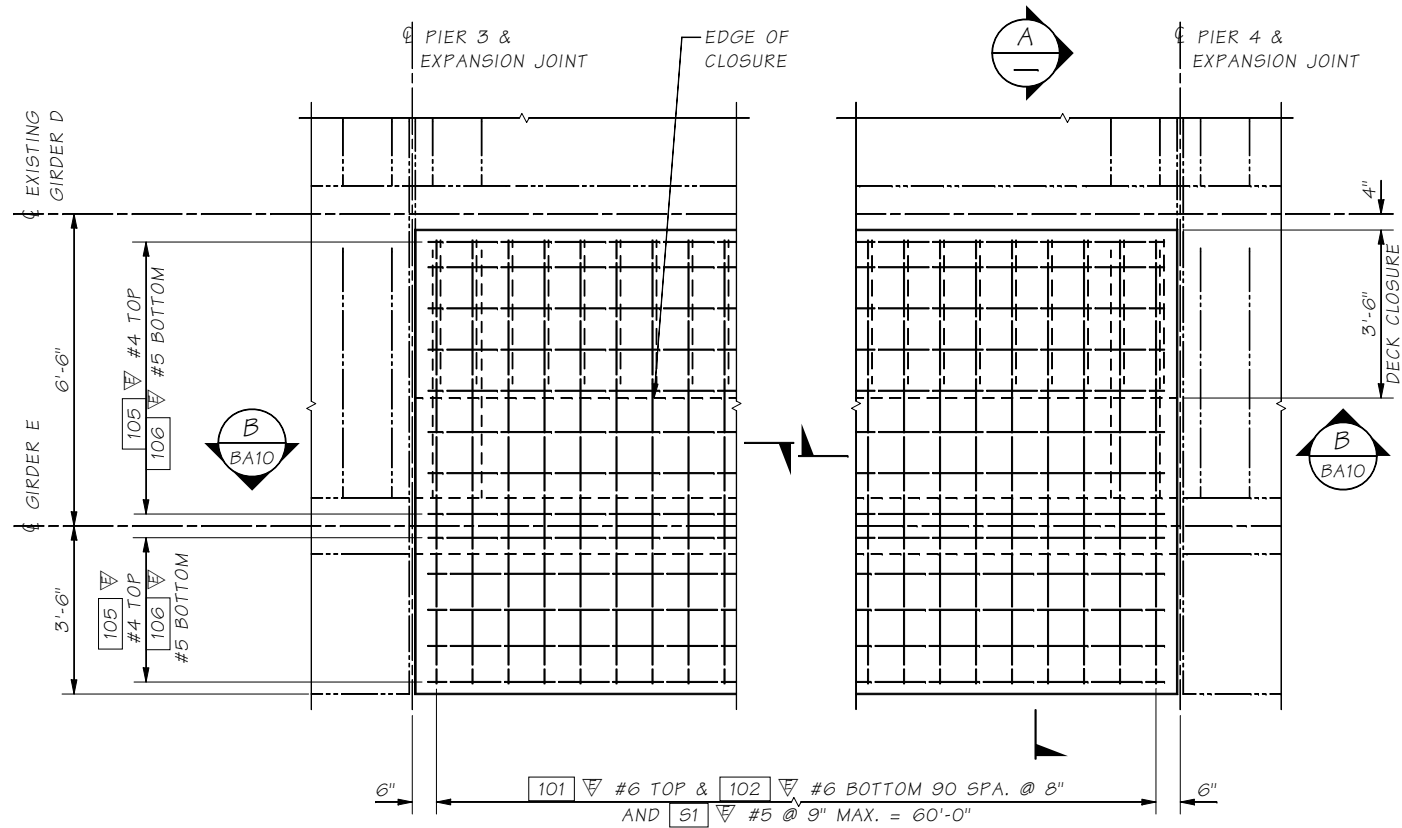
BRIDGE AND STRUCTURES OFFICE



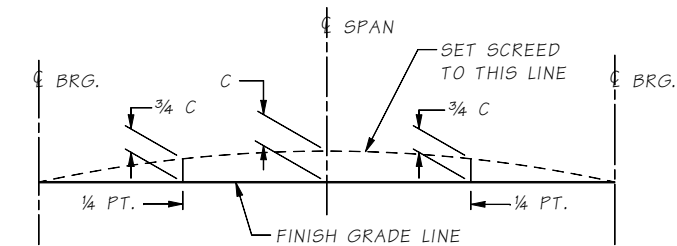
I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT BR. NO. 5/646	
END DIAPHRAGM DETAILS	

BRIDGE SHEET NO.	BA10
SHEET	14
OF	40
SHEETS	

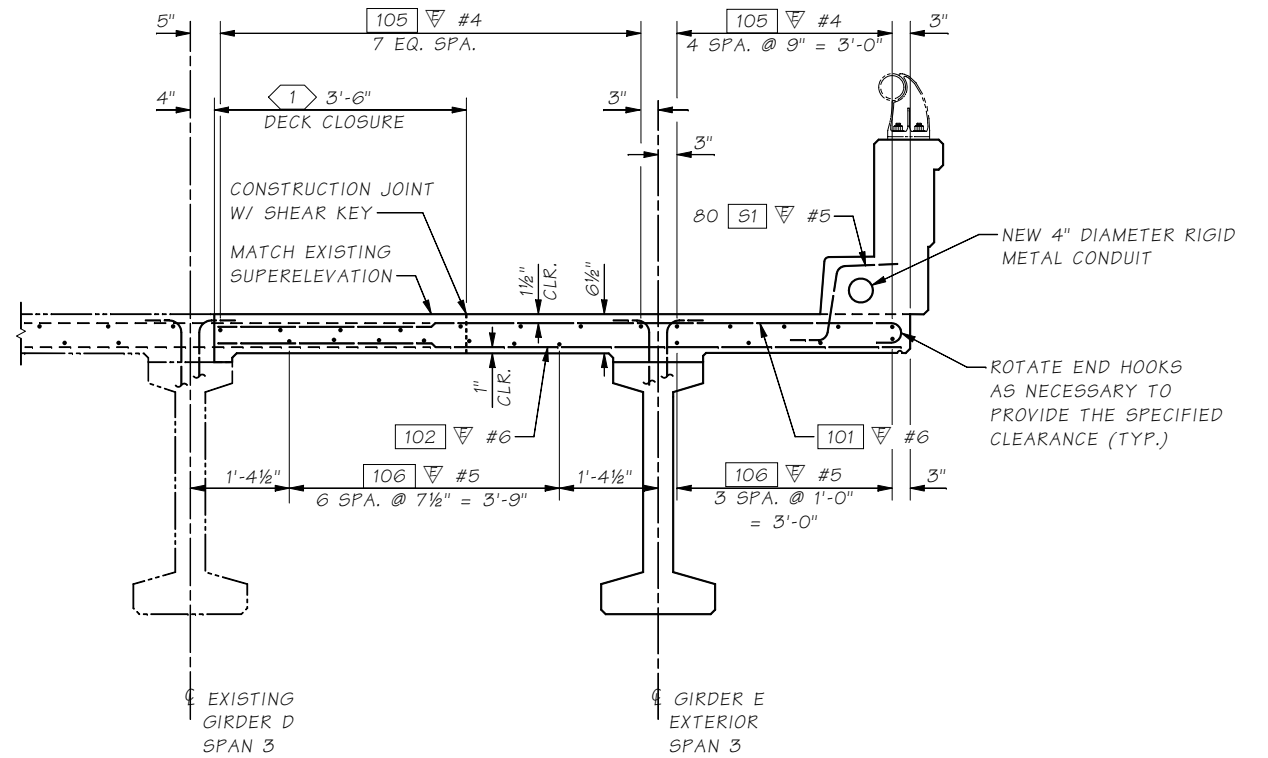
SR 5 FILE NO. SHEET BA11



BRIDGE DECK REINFORCEMENT PLAN
145 #7 & 245 #8 TOP OF DIAPHRAGM BARS NOT SHOWN FOR CLARITY



SCREED SETTING DIMENSIONS
FOR DIMENSION "C"
SEE GIRDER SCHEDULE BR. SHT. BA7



1 FOR CASTING OF DECK CLOSURE SEE BRIDGE SHEET BA9 & BA10

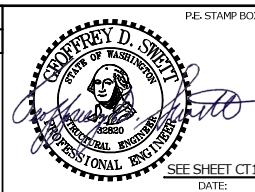
SECTION A

SPLICE NOTES:

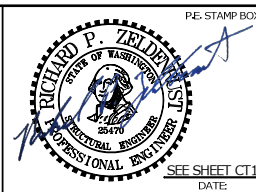
1. LOCATION OF SPLICES AT CONTRACTOR'S OPTION UNLESS OTHERWISE NOTED.
2. ALL SPLICES SHALL BE STAGGERED SO NOT MORE THAN 50% OF THE REBAR IS SPLICED AT THE SAME LOCATION.
3. MIN LAP SPLICE FOR #4 = 2'-0"
4. MIN LAP SPLICE FOR #5 = 2'-6"
5. MIN LAP SPLICE FOR #6 = 3'-0"

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\DECK REINF.wnd									
Supervisor	Zeldenrust, RP										
Designed By	Swett, GD										
Checked By	Zeldenrust, RP										
Detailed By	wrenn, M										
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						

Tue May 24 10:07:48 2022



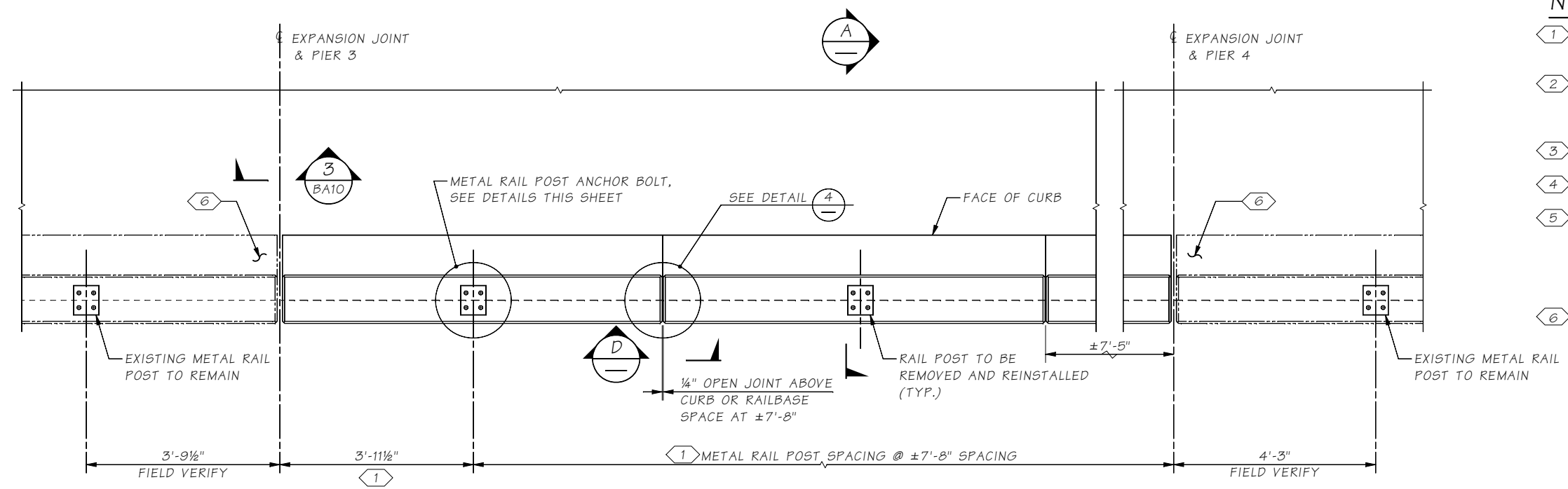
BRIDGE AND STRUCTURES OFFICE



I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646
BRIDGE DECK REINFORCEMENT PLAN

BRIDGE SHEET NO.
BA11
SHEET 15 OF 40 SHEETS

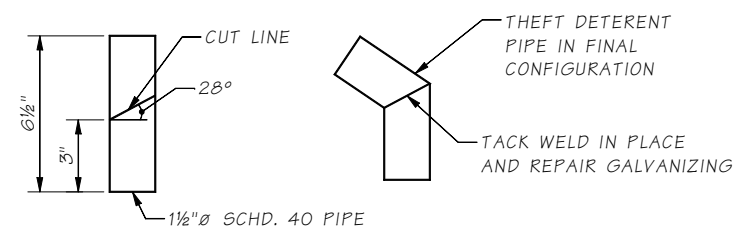
SR 5 FILE NO. SHEET BA12



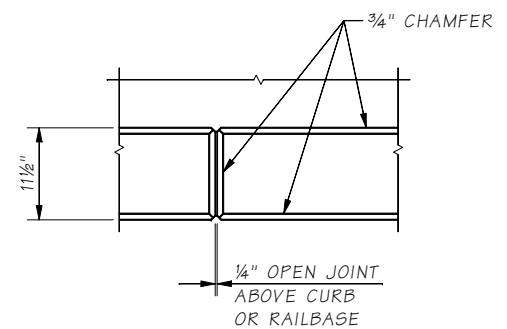
NOTES:

- 1 FIELD MEASURE AND RECORD LOCATIONS PRIOR TO DEMOLITION. RE-INSTALL POSTS IN SAME LOCATIONS.
- 2 FRONT FACE OF CURB AND BACK FACES OF RAILBASE SHALL MATCH EXISTING. ADJUST DIMENSIONS SHOWN AS NEEDED.
- 3 CONSTRUCTION JOINT W/ 1" x 3" CONTINUOUS SHEAR KEY.
- 4 FIELD VERIFY BOLT SPACING.
- 5 NEW 4" DIAMETER RIGID METAL CONDUIT INSTALLED AND CONNECTED TO EXISTING CONDUIT ON EACH END OF SPAN 3. INSTALL AN EXPANSION FITTING AT EACH EXPANSION JOINT MEETING THE REQUIREMENTS OF STANDARD SPEC. SECTION 9-29.1(2)A.
- 6 REPAIR EXISTING CONCRETE CURB IN SPAN 2 AND SPAN 4 AS NEEDED TO REMOVE AND INSTALL 4" DIAMETER EXPANSION FITTING FOR 4" DIAMETER CONDUIT

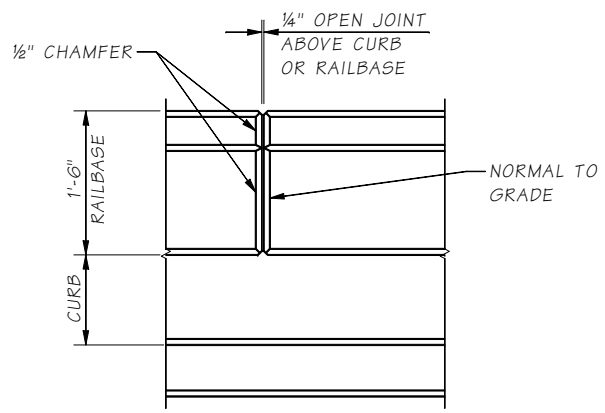
BRIDGE DECK, CURB & RAILBASE



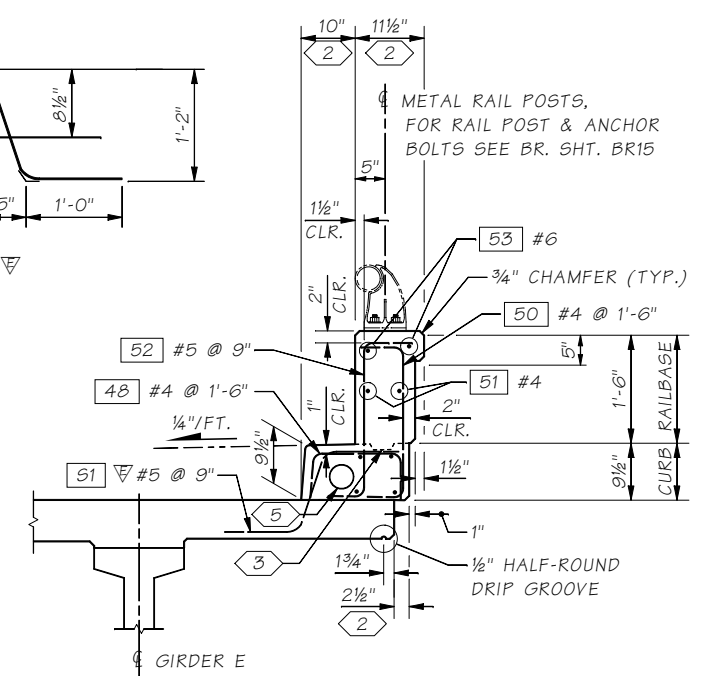
DETAIL 5
PIPE SHALL BE ASTM A53 OR GRADE 500 - HDG



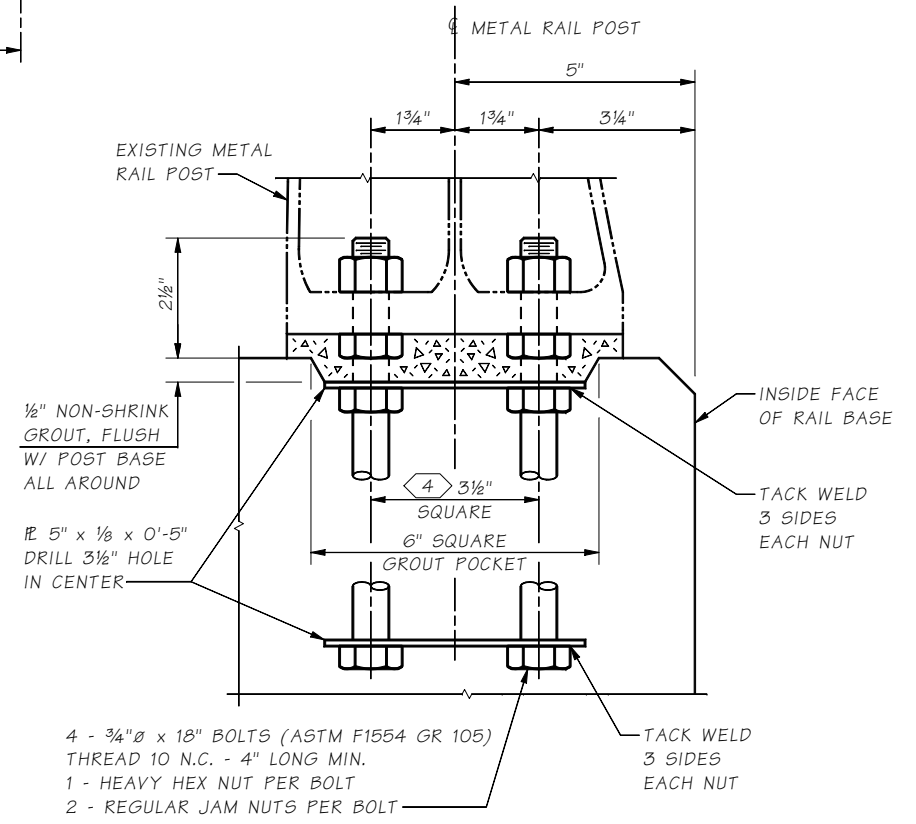
DETAIL 4
RAILBASE JOINT, TYP. BETWEEN RAIL POSTS



SECTION D
RAILBASE JOINT, TYP. BETWEEN RAIL POSTS



SECTION A
METAL RAIL POST ANCHOR BOLT



NOTE:
BOLTS SHALL BE POSITIONED IN JIG DURING WELDING, BOLTS SHALL BE INSTALLED NORMAL TO RAIL BASE BOTH LONGITUDINAL & TRANSVERSE

METAL RAIL POST ANCHOR BOLT
DETAIL & INSTALLATION

- 1. REPLACE 5/8" x 1 1/8" HEX CAP SCREWS (GALV.), AT RAIL TUBE SPLICE CONNECTION LOCATIONS AND RAIL TO POST CONNECTIONS.
- 2. REPLACE ANTI-THEFT PIPES AT ALL POSTS TO MATCH EXISTING REMOVED. SEE DETAIL 5 THIS SHEET FOR PIPE DIMENSIONS.

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\SIDEWALK.wnd									
Supervisor	Zeldenrust, RP										
Designed By	Swett, GD										
Checked By	Zeldenrust, RP										
Detailed By	wrenn, M										
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						

PE: STAMP BOX

BRIDGE AND STRUCTURES OFFICE

PE: STAMP BOX

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

WASHINGTON STATE
Department of Transportation

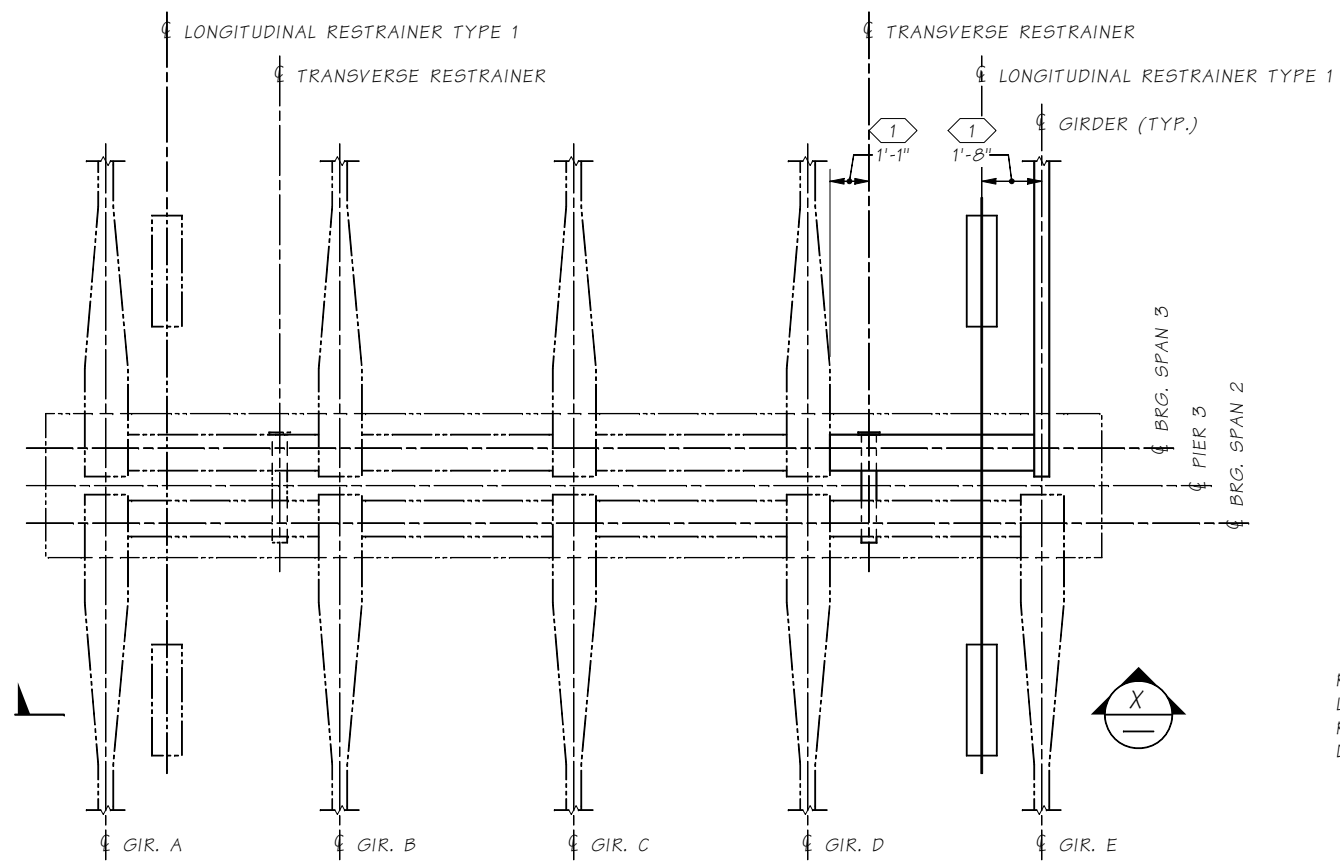
I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646

CURB AND RAILBASE DETAILS

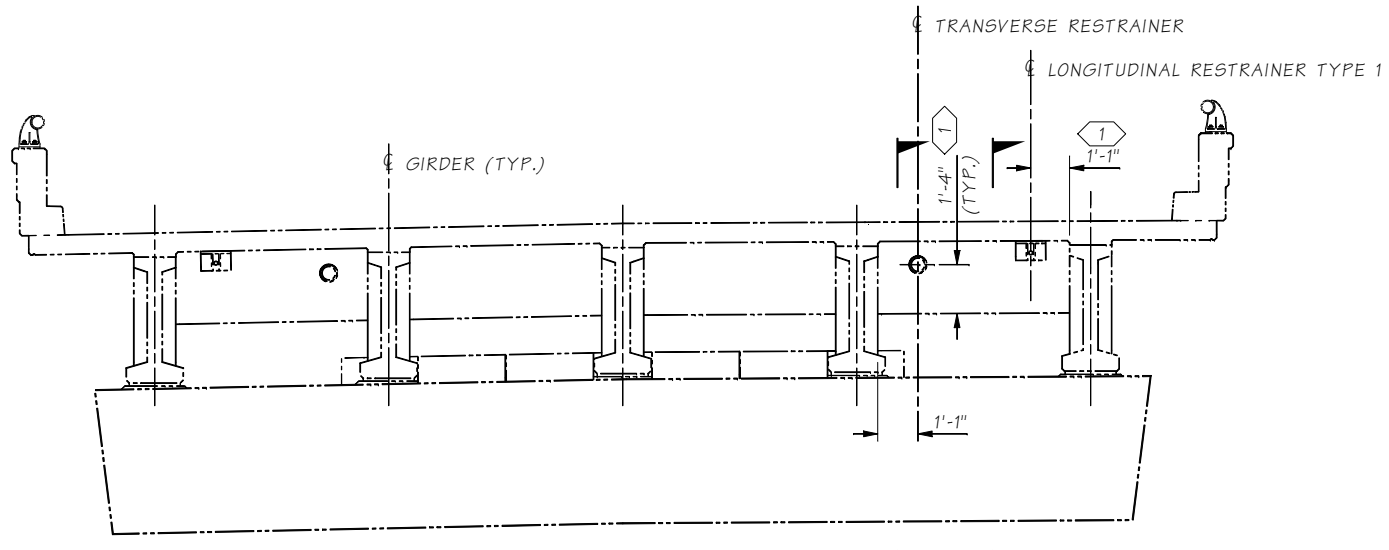
BRIDGE SHEET NO.
BA12

SHEET
16
OF
40
SHEETS

SR 5 FILE NO. SHEET BA13

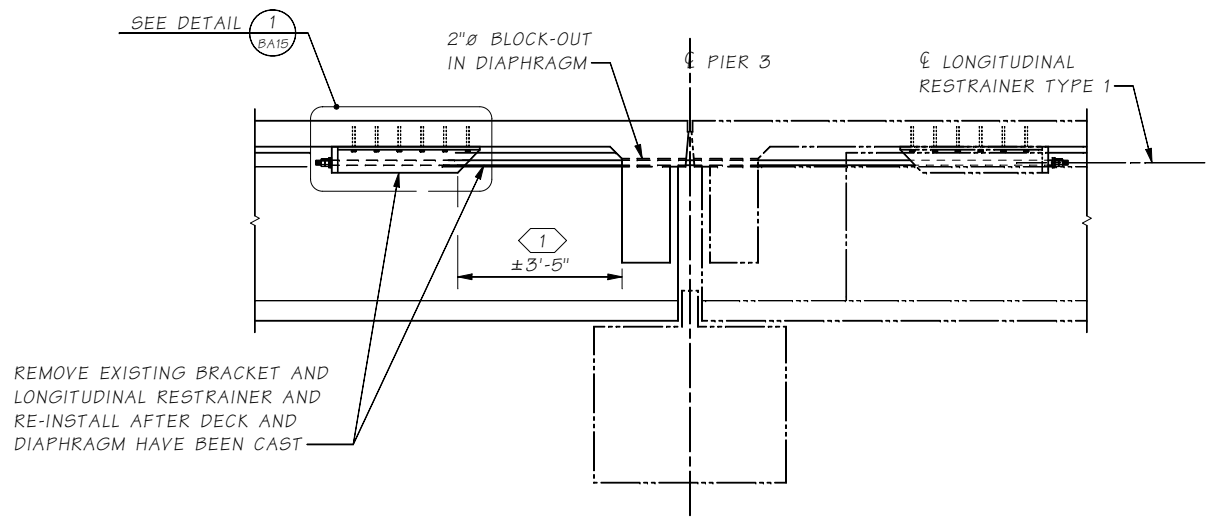


PLAN - PIER 3
SLAB NOT SHOWN FOR CLARITY

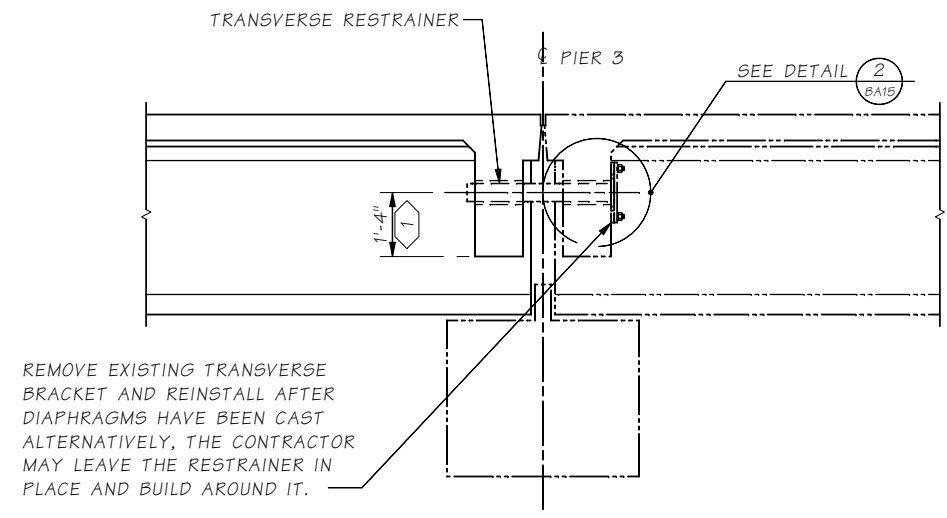


SECTION A
LOOKING SOUTH

NOTES:
1 FIELD VERIFY AND MATCH EXISTING LOCATIONS WHEN RE-INSTALLING RESTRAINERS.



SECTION A
LOOKING SOUTH



SECTION B
LOOKING SOUTH

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\PIER 3.wnd							
Supervisor	Zeldenrust, RP								
Designed By	Swett, GD								
Checked By	Zeldenrust, RP								
Detailed By	wrenn, M								
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist		DATE	REVISION	BY	APP'D				

BRIDGE AND STRUCTURES OFFICE

SEE SHEET CT1
DATE:

SEE SHEET CT1
DATE:

Washington State
Department of Transportation

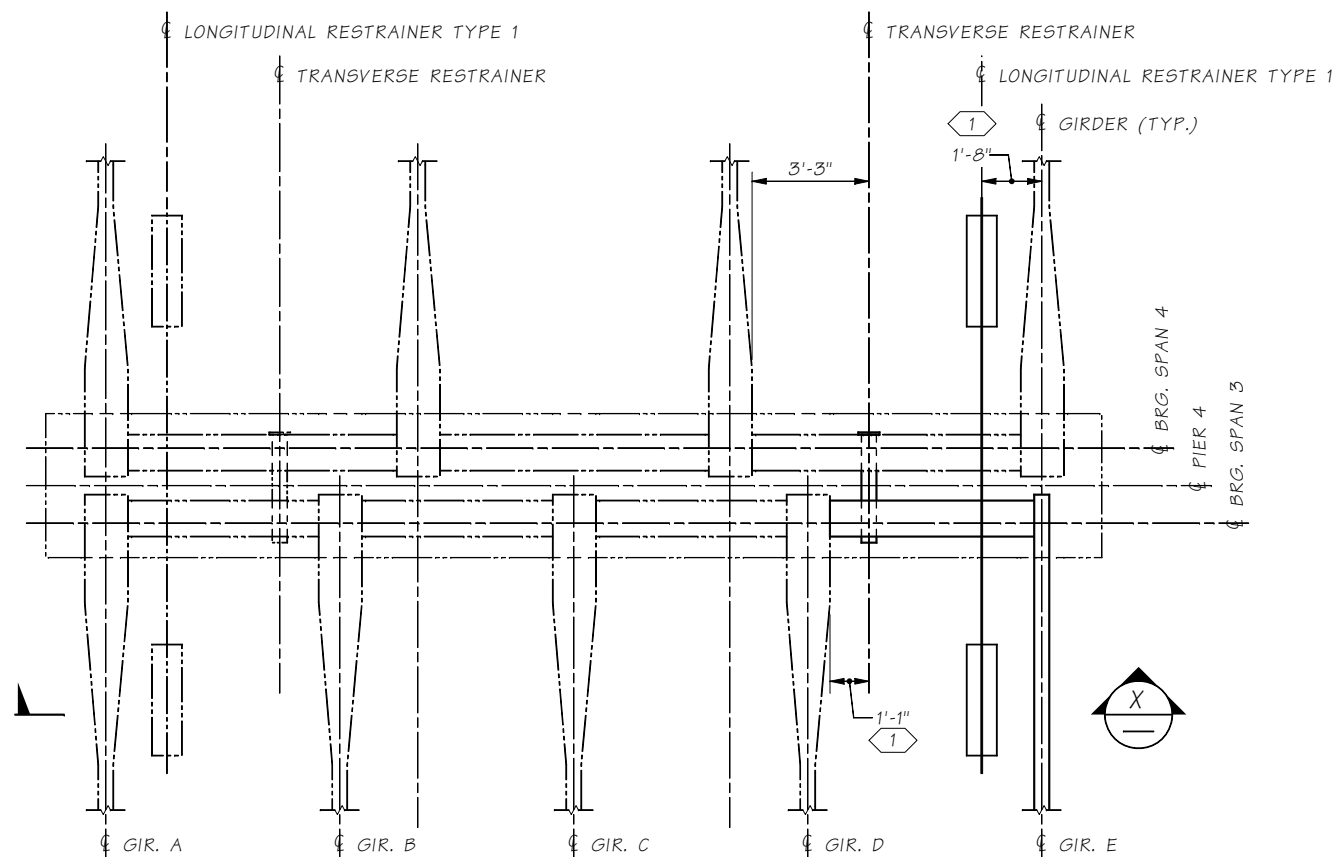
I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646

PIER 3 DETAILS

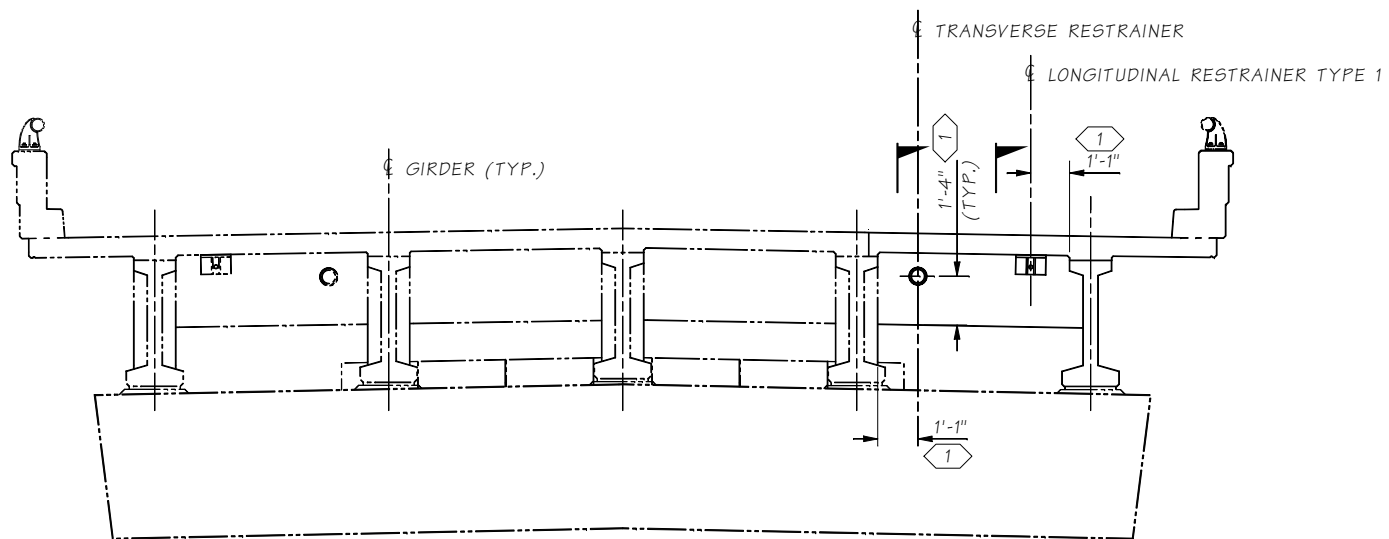
BRIDGE SHEET NO.
BA13

SHEET
17
OF
40
SHEETS

SR 5 FILE NO. SHEET BA14



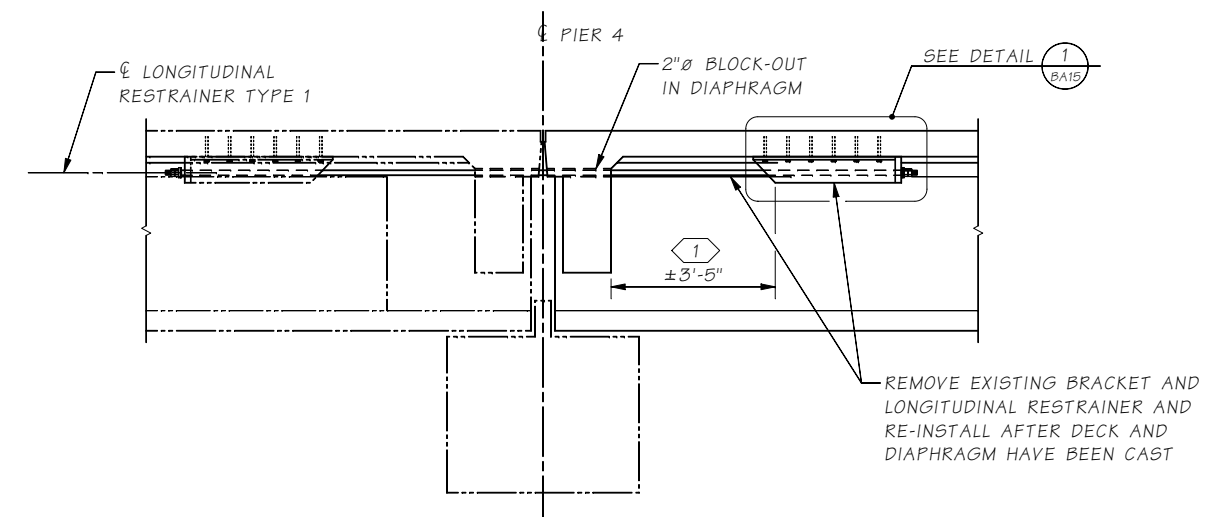
PLAN - PIER 4
SLAB NOT SHOWN FOR CLARITY



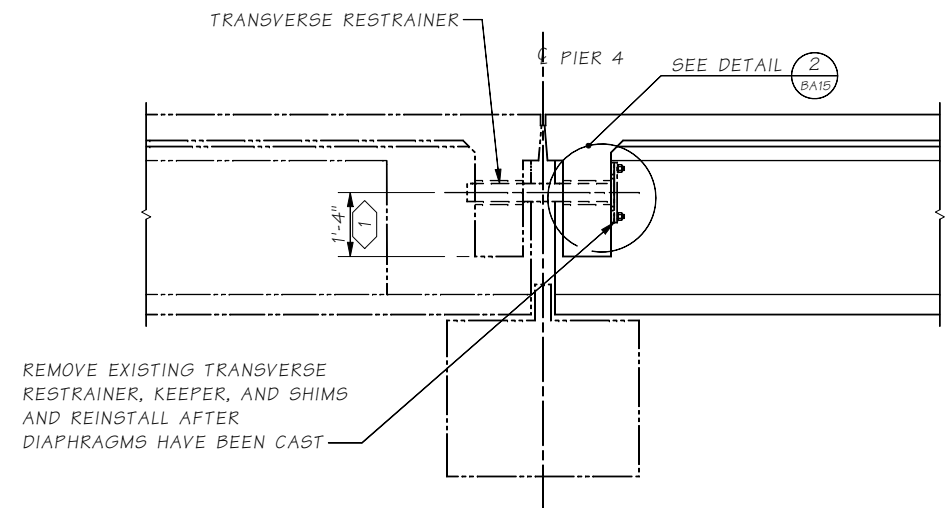
SECTION X
—

NOTES:

1 FIELD VERIFY AND MATCH EXISTING LOCATIONS WHEN RE-INSTALLING RESTRAINERS.



SECTION A
LOOKING SOUTH



SECTION B
LOOKING SOUTH

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR>window files\PIER 4.wnd					
Supervisor	Zeldenrust, RP						
Designed By	Swett, GD						
Checked By	Zeldenrust, RP						
Detailed By	wrenn, M						
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APP'D		

PE: STAMP BOX

PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE:

BRIDGE AND STRUCTURES OFFICE

PE: STAMP BOX

PROFESSIONAL ENGINEER

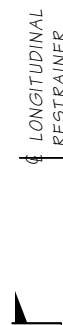
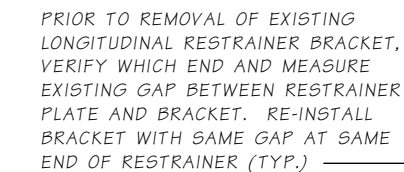
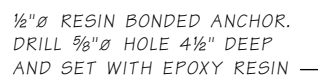
SEE SHEET CT1

DATE:

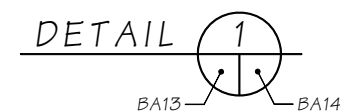


I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646
PIER 4 DETAILS

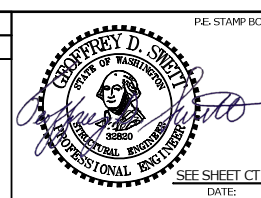
BRIDGE SHEET NO.
BA14
SHEET 18 OF 40 SHEETS



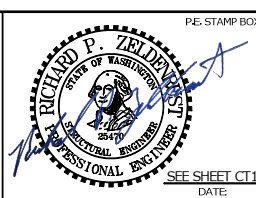
LONGITUDINAL RESTRAINER BRACKET



Bridge Design Engr.		Khaleghi, B		M:\Z-Team\I-5 BR 5-646 12TH ST NE GIRDER REPAIR\window files\EQ RESTRAINER BRACKETS.wnd									
Supervisor		Zeidenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By		Swett, GD 01/22						10	WASH.				
Checked By		Zeidenrust, RP											
Detailed By													
Bridge Projects Engr.								JOB NUMBER 22A012					
Prelim. Plan By								CONTRACT NO.					
Architect/Specialist		DATE	REVISION	BY	APPD								



BRIDGE
AND
STRUCTURES
OFFICE



**Washington State
Department of Transportation**


I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
BR. NO. 5/646

EQ RESTRAINER
BRACKET DETAILS

BRIDGE SHEET NO.	A15
SHEET 19 OF 40 SHEETS	



**1. SEE ELEVATION FIGURE ON BRIDGE SHEET BA1
FOR LOCATION OF SIGN PLACEMENT ON BRIDGE.**

FILE NAME T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est\ (PSE) PLN - Plans\100% Plans\XL6506_PS_SN.dgn										Plot 1	
TIME 4:01:43 PM						REGION NO.		STATE		FED.AID PROJ.NO.	
DATE 5/23/2022						10		WASH			
PLOTTED BY huttong						JOB NUMBER		22A012			
DESIGNED BY P. SCHNEIDER						CONTRACT NO.		LOCATION NO.		 <p>Washington State Department of Transportation</p>	
ENTERED BY P. SCHNEIDER											
CHECKED BY G. HUTTON											
PROJ. ENGR. M. KAYANDA										<p>I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT</p>	
REGIONAL ADM. M. COTTON											
		REVISION		DATE		BY				SIGNING DETAILS	

PCMS 1	
1	2
RIGHT LANE CLOSED	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 +/- MILE IN ADVANCE OF W20-1 SIGN.

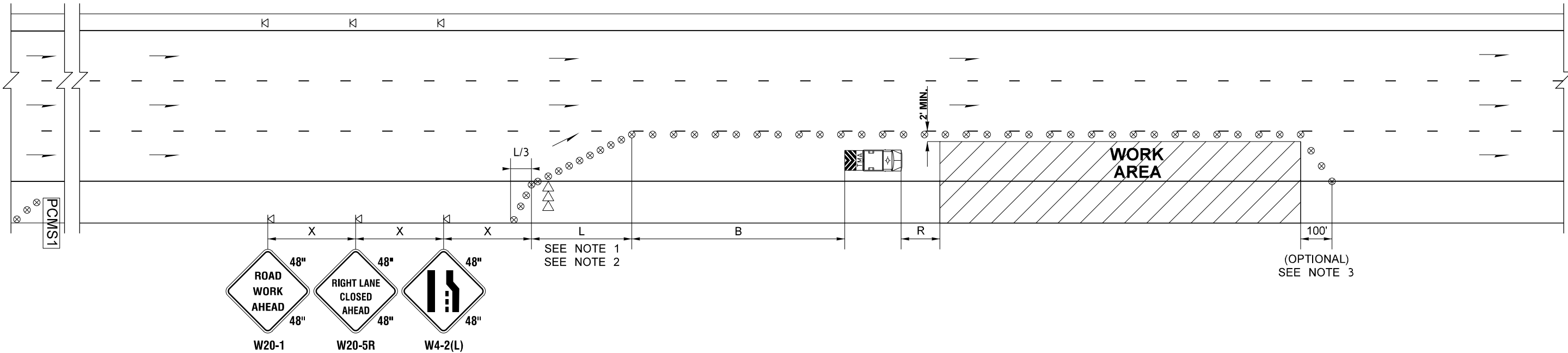
LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

MAXIMUM CHANNELIZATION SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	50-75 MPH	1500' +/-
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		

MINIMUM LANE CLOSURE TAPER LENGTH = L							
LANE WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
12	L (feet)	600	660	720	780	840	900
MINIMUM SHOULDER CLOSURE TAPER LENGTH = L/3							
SHOULDER WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
6	L/3 (feet)	120	120	120	160	160	160
10	L/3 (feet)	200	200	200	240	240	280
USE A MINIMUM 3 DEVICES FOR SHOULDER LESS THAN 6'.							

MINIMUM LONGITUDINAL BUFFER SPACE = B						
SPEED (MPH)	50	55	60	65	70	75
LENGTH (feet)	425	495	570	645	730	820
STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R						
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.			
50-55 MPH	60+ MPH	50-55 MPH	60+ MPH	50-55 MPH	60+ MPH	
123'	172'	100'	150'			



LEGEND

- WORK AREA
- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

- DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
- IF FEASIBLE, AVOID PLACING LANE CLOSURE TAPER WITHIN LIMITS OF HORIZONTAL CURVES.
- REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE RIGHT LANE.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

I-5 NORTHBOUND SINGLE RIGHT LANE CLOSURE

NOT TO SCALE

FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn
TIME	4:02:43 PM
DATE	5/23/2022
PLOTTED BY	huttong
DESIGNED BY	P. BARONA
ENTERED BY	P. BARONA
CHECKED BY	G. HUTTON
PROJ. ENGR.	M. KAYANDA
REGIONAL ADM.	M. COTTON
REVISION	DATE BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
22A012	
CONTRACT NO.	

FED.AID PROJ.NO.	
LOCATION NO.	

P.E. STAMP BOX

P.E. STAMP BOX



I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
TRAFFIC CONTROL PLANS

PLAN REF NO
TC1
SHEET
22
OF
40
SHEETS

PCMS 1	
1	2
LEFT LANE CLOSED	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1+/- MILE IN ADVANCE OF W20-1 SIGN.

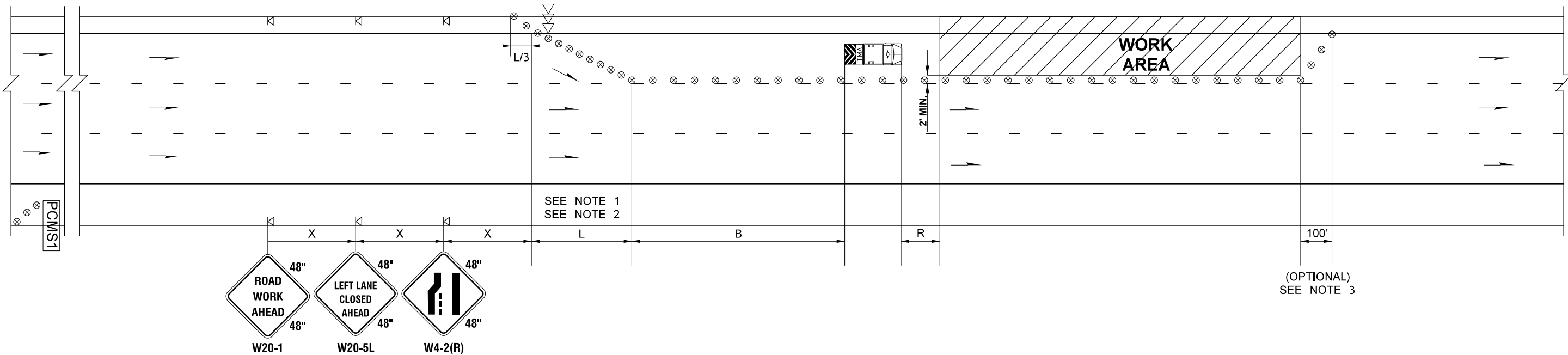
LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

MAXIMUM CHANNELIZATION SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	50-75 MPH	1500' +/-
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		

MINIMUM LANE CLOSURE TAPER LENGTH = L							
LANE WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
12	L (feet)	600	660	720	780	840	900
MINIMUM SHOULDER CLOSURE TAPER LENGTH = L/3							
SHOULDER WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
6	L/3 (feet)	120	120	120	160	160	160
10	L/3 (feet)	200	200	200	240	240	280
USE A MINIMUM 3 DEVICES FOR SHOULDER LESS THAN 6'.							

MINIMUM LONGITUDINAL BUFFER SPACE = B						
SPEED (MPH)	50	55	60	65	70	75
LENGTH (feet)	425	495	570	645	730	820
STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R						
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.			
50-55 MPH	60+ MPH	50-55 MPH	60+ MPH	50-55 MPH	60+ MPH	
123'	172'	100'	150'			



LEGEND

	WORK AREA
	TEMPORARY SIGN LOCATION
	TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
	SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE TAPER WITHIN LIMITS OF HORIZONTAL CURVES.
3. REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE LEFT LANE.
4. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

I-5 NORTHBOUND AND SOUTHBOUND SINGLE LEFT LANE CLOSURE

NOT TO SCALE

FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn
TIME	4:02:46 PM
DATE	5/23/2022
PLOTTED BY	huttong
DESIGNED BY	P. BARONA
ENTERED BY	P. BARONA
CHECKED BY	G. HUTTON
PROJ. ENGR.	M. KAYANDA
REGIONAL ADM.	M. COTTON
REVISION	DATE BY

REGION NO.	STATE
10	WASH
JOB NUMBER	22A012
CONTRACT NO.	

FED.AID PROJ.NO.
LOCATION NO.

P.E. STAMP BOX

P.E. STAMP BOX



I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
TRAFFIC CONTROL PLANS

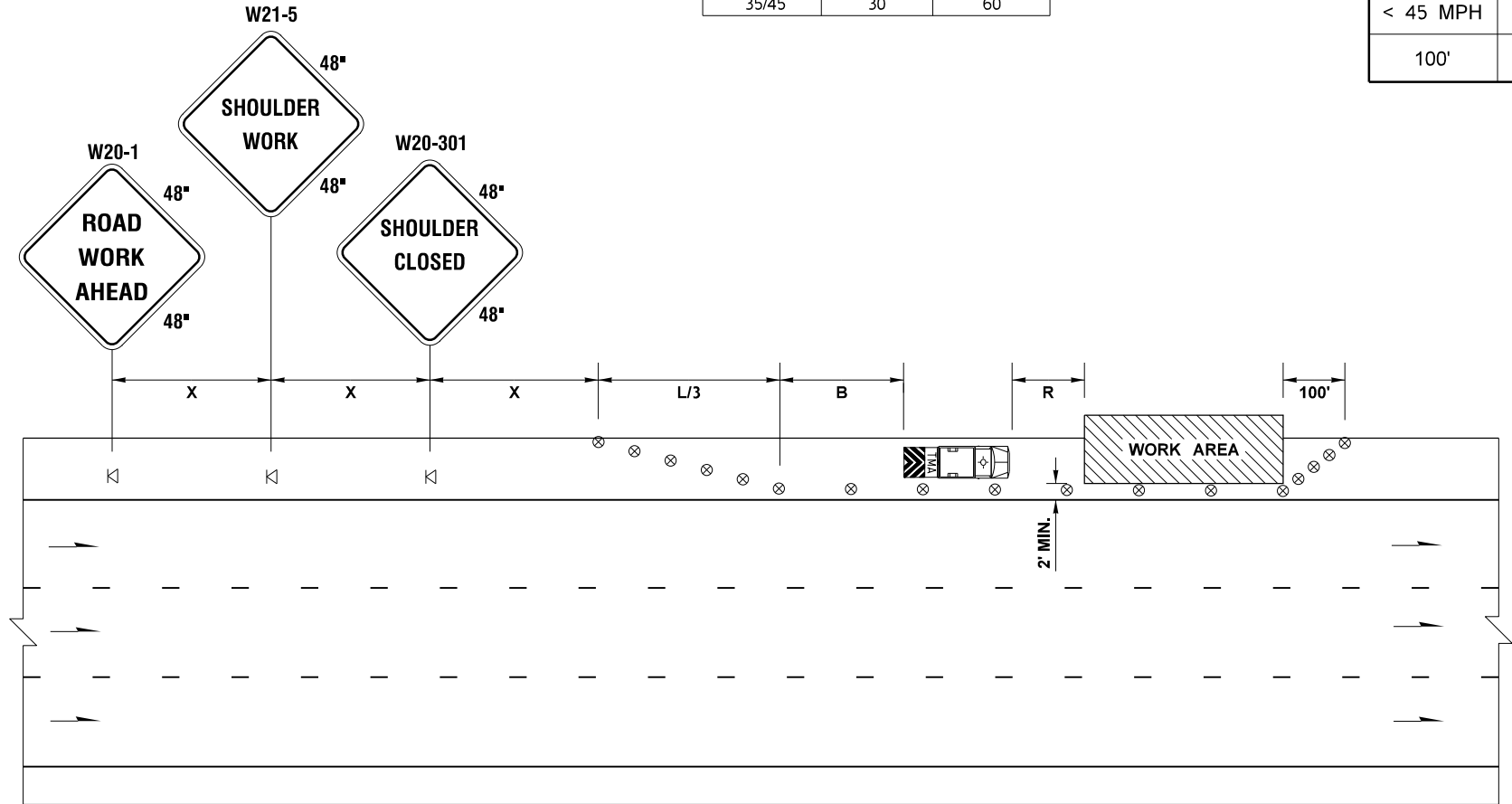
PLAN REF NO
TC2
SHEET
23
OF
40
SHEETS

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8	-	-	-	-	120	130	150	160	170	190
10	-	-	-	-	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.				HOST VEHICLE WEIGHT > 22,000 lbs.						
< 45 MPH	45-55 MPH	> 55 MPH		< 45 MPH	45-55 MPH	> 55 MPH				
100'	123'	172'		74'	100'	150'				



LEGEND

- WORK AREA
- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- TRANSPORTABLE ATTENUATOR

NOTES

- NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT) O.C.
- ALL SIGNS ARE BLACK ON ORANGE.

I-5 SOUTHBOUND LEFT SHOULDER CLOSURE
NOT TO SCALE

FILE NAME T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn									
TIME 4:02:29 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.			
DATE 5/23/2022				JOB NUMBER 22A012					
PLOTTED BY huttong				CONTRACT NO.	LOCATION NO.				
DESIGNED BY P. BARONA									
ENTERED BY P. BARONA									
CHECKED BY G. HUTTON									
PROJ. ENGR. M. KAYANDA									
REGIONAL ADM. M. COTTON	REVISION	DATE	BY						
						DATE	DATE		
						P.E. STAMP BOX	P.E. STAMP BOX		
								I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT	
								TRAFFIC CONTROL PLANS	
								PLAN REF NO TC3	SHEET 24 OF 40 SHEETS

PCMS 1	
1	2
SLOW TRAFFIC AHEAD	NEXT # MILES
2.0 SEC	2.0 SEC

FIELD LOCATE AT LEAST 1/4 MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

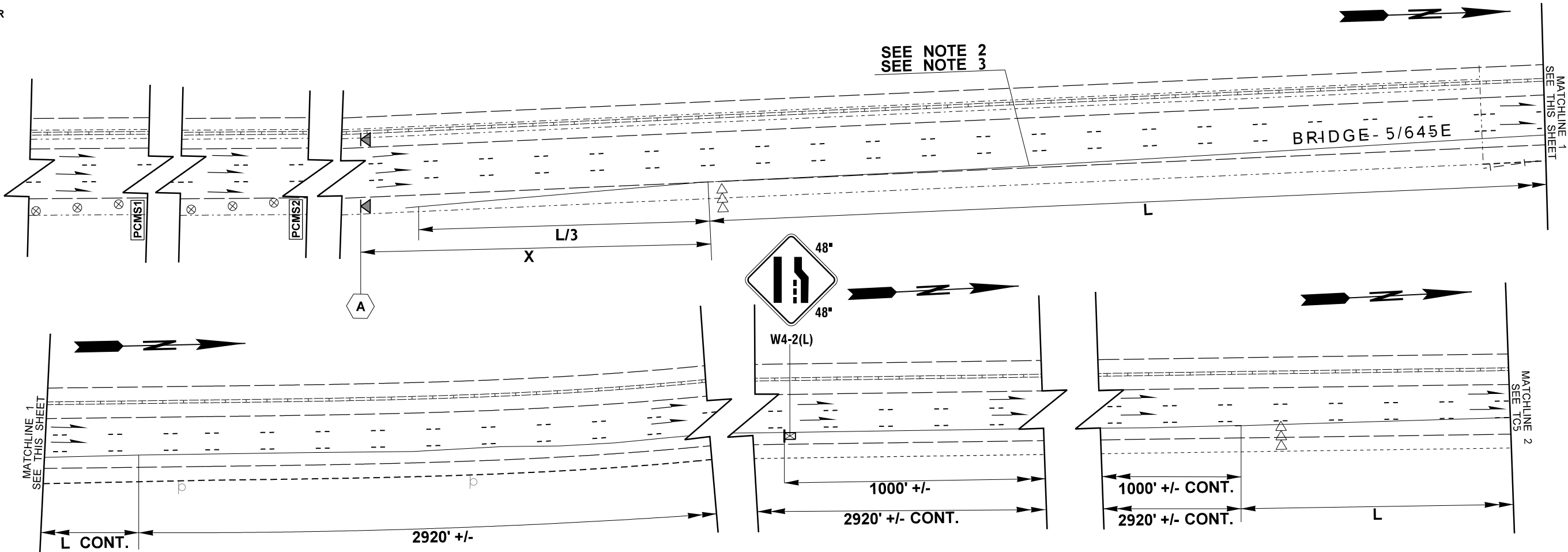
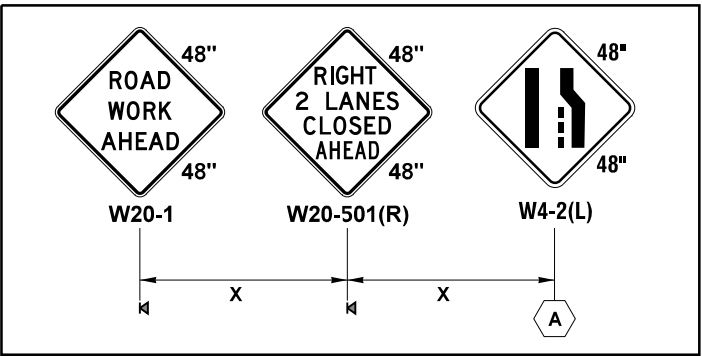
= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

PCMS 2	
1	2
RIGHT 2 LANES CLOSED	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1/4 +/- MILE IN ADVANCE OF W20-1 SIGN.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.



LEGEND

- WORK AREA
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- CONSTRUCTION SIGN CLASS B
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

- SEE TC2 FOR TRAFFIC CONTROL TABLES
- DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMP SHALL BE 500' MINIMUM.
- REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE RIGHT LANE.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- THIS TRAFFIC CONTROL PLAN IS APPLICABLE TO SHORT-TERM AND INTERMEDIATE-TERM DURATION LANE CLOSURES OF 3 DAYS OR LESS.

I-5 NORTHBOUND DOUBLE RIGHT LANE CLOSURE

I-5 MP 194.13 to MP 196.05

NOT TO SCALE

FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn										
TIME	4:02:32 PM						REGION NO.		STATE		FED.AID PROJ.NO.
DATE	5/23/2022						10		WASH		
PLOTTED BY	huttong								JOB NUMBER		
DESIGNED BY	P. BARONA								22A012		
ENTERED BY	P. BARONA										
CHECKED BY	G. HUTTON								CONTRACT NO.		
PROJ. ENGR.	M. KAYANDA								LOCATION NO.		
REGIONAL ADM.	M. COTTON										
REVISION					DATE		BY				

FED.AID PROJ.NO.

P.E. STAMP BOX

DATE

P.E. STAMP BOX

DATE

Washington State
Department of Transportation

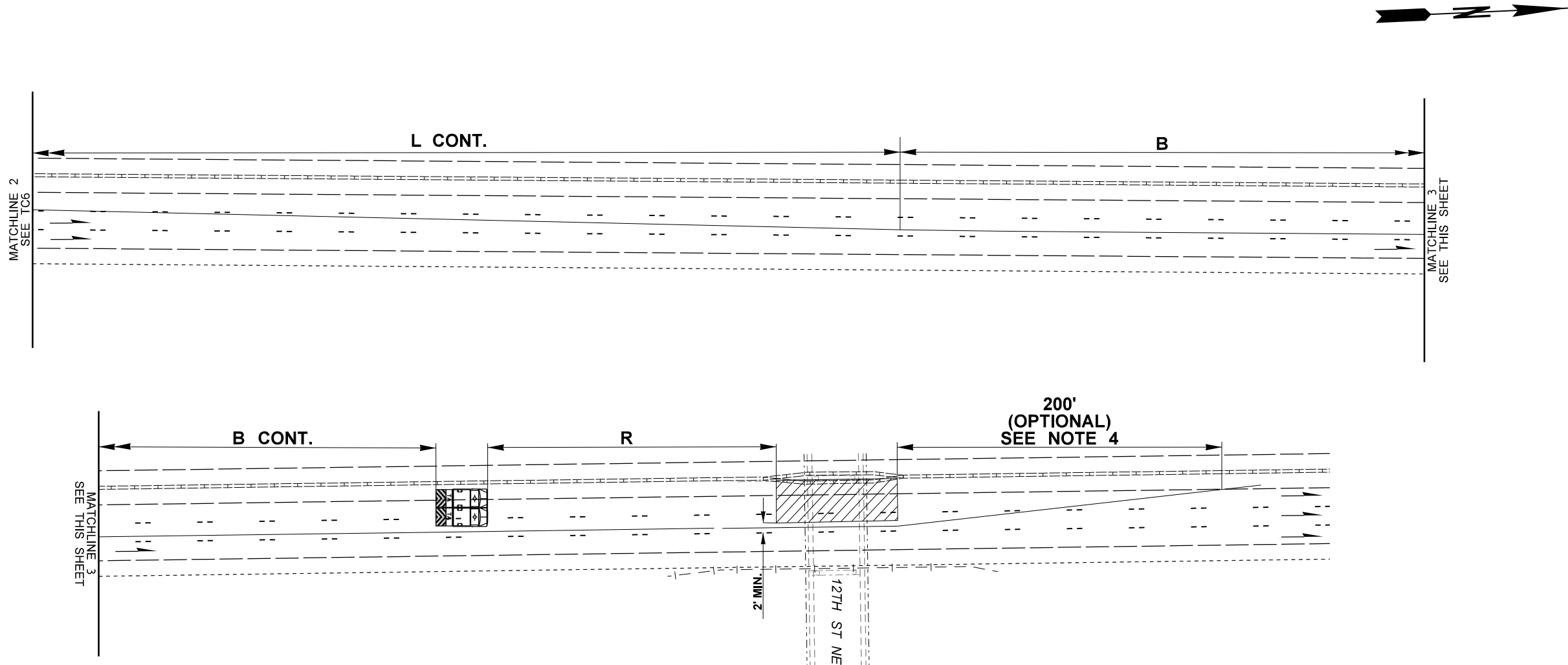
I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT

TRAFFIC CONTROL PLANS

PLAN REF NO

TC4

SHEET
25
OF
40
SHEETS



LEGEND

- WORK AREA
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- CONSTRUCTION SIGN CLASS B
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

- SEE TC2 FOR TRAFFIC CONTROL TABLES
- DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
- REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE RIGHT LANE.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- THIS TRAFFIC CONTROL PLAN IS APPLICABLE TO SHORT-TERM AND INTERMEDIATE-TERM DURATION LANE CLOSURES OF 3 DAYS OR LESS.

I-5 NORTHBOUND DOUBLE LEFT LANE CLOSURE
I-5 MP 194.14 to MP 196.05
NOT TO SCALE

FILE NAME										T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn																													
TIME					4:02:41 PM															REGION NO.					STATE					FED.AID PROJ.NO.									
DATE					5/23/2022															10					WASH														
PLOTTED BY					huttong															JOB NUMBER					22A012					LOCATION NO.									
DESIGNED BY					P. BARONA															CONTRACT NO.																			
ENTERED BY					P. BARONA																																		
CHECKED BY					G. HUTTON																																		
PROJ. ENGR.					M. KAYANDA																																		
REGIONAL ADM.					M. COTTON																																		
										REVISION										DATE										BY									

PCMS 1	
1	2
SLOW TRAFFIC AHEAD	NEXT # MILES
2.0 SEC	2.0 SEC

FIELD LOCATE AT LEAST 1/4 MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

PCMS MAY BE TRUCK MOUNTED; IF SO, THE THREE TRANSVERSE DRUMS ARE OPTIONAL.

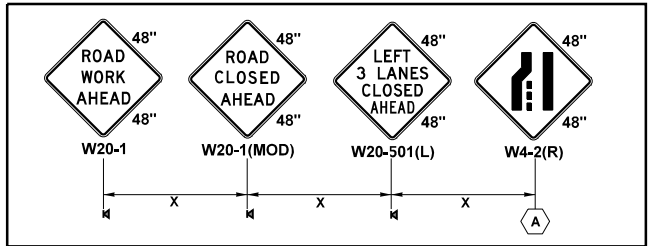
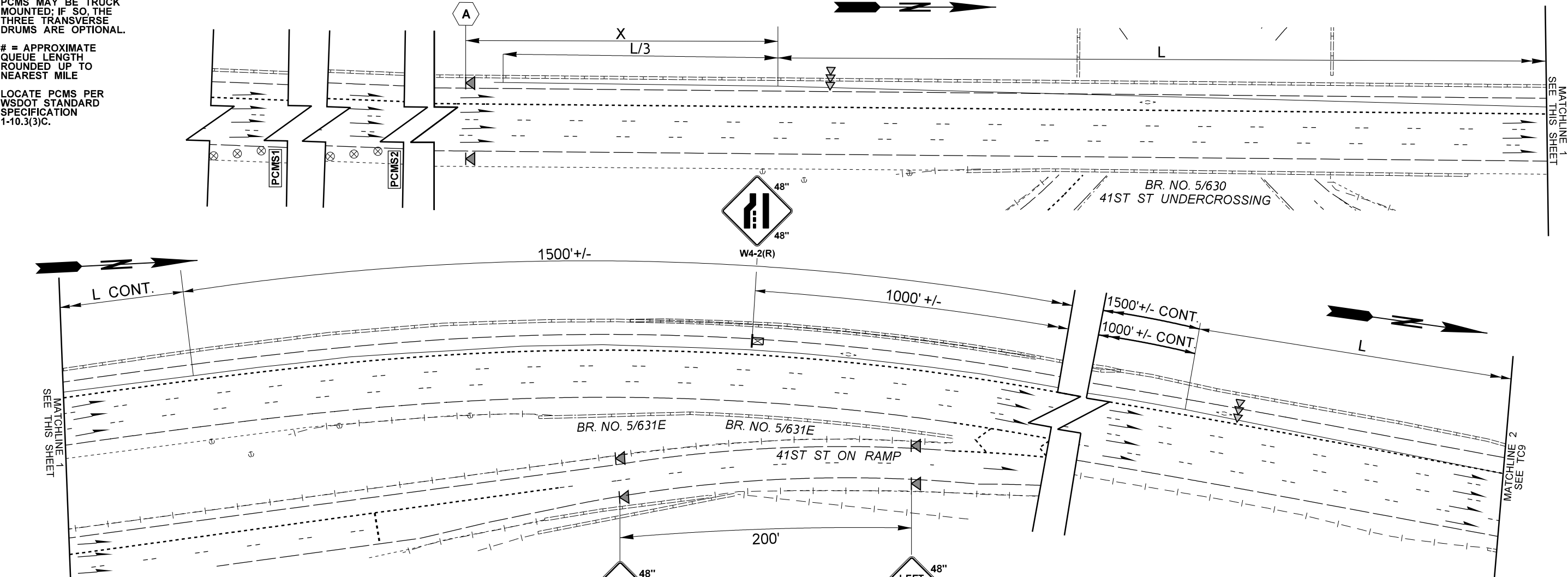
= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

PCMS 2	
1	2
I-5 NB CLOSED AHEAD	FOLLOW DETOUR
2.0 SEC	2.0 SEC

FIELD LOCATE 1/4 +/- MILE IN ADVANCE OF W20-1 SIGN.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.



NOTES:

- REFER TO TC2 FOR TRAFFIC CONTROL TABLES
- DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMP SHALL BE 500' MINIMUM.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED

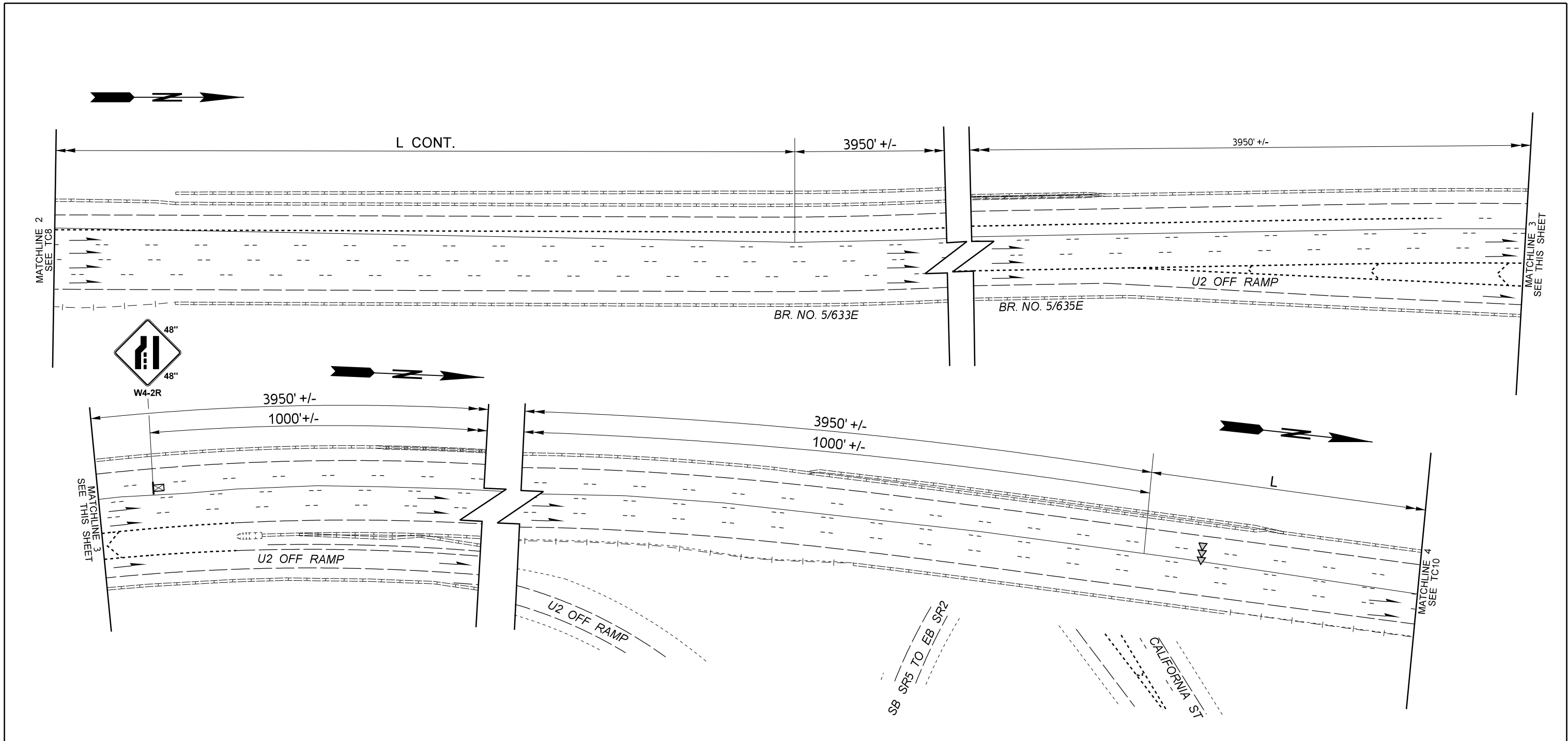
LEGEND

- ⊗ TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- ▶ CONSTRUCTION SIGN CLASS B
- ⊠ TEMORARY SIGN LOCATION (5' MIN HEIGHT)
- ➡ SEQUENTIAL ARROW SIGN
- ⊠ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

I-5 NORTHBOUND FULL CLOSURE
I-5 MP 191.53 TO MP 194.66
NOT TO SCALE

FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn									
TIME	4:02:49 PM									
DATE	5/23/2022									
PLOTTED BY	huttong									
DESIGNED BY	P. BARONA									
ENTERED BY	P. BARONA									
CHECKED BY	G. HUTTON									
PROJ. ENGR.	M. KAYANDA									
REGIONAL ADM.	M. COTTON									
REVISION										
DATE										
BY										

FED.AID PROJ.NO.		Washington State Department of Transportation		I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT		PLAN REF NO
JOB NUMBER 22A012		LOCATION NO.		TRAFFIC CONTROL PLANS		TC8
DATE		DATE		SHEET 29 OF 40 SHEETS		
P.E. STAMP BOX		P.E. STAMP BOX				



NOTES:

1. REFER TO TC2 FOR TRAFFIC CONTROL TABLES
2. DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
3. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED

I-5 NORTHBOUND FULL CLOSURE
I-5 MP 191.53 TO MP 194.66 **NOT TO SCALE**

LEGEND

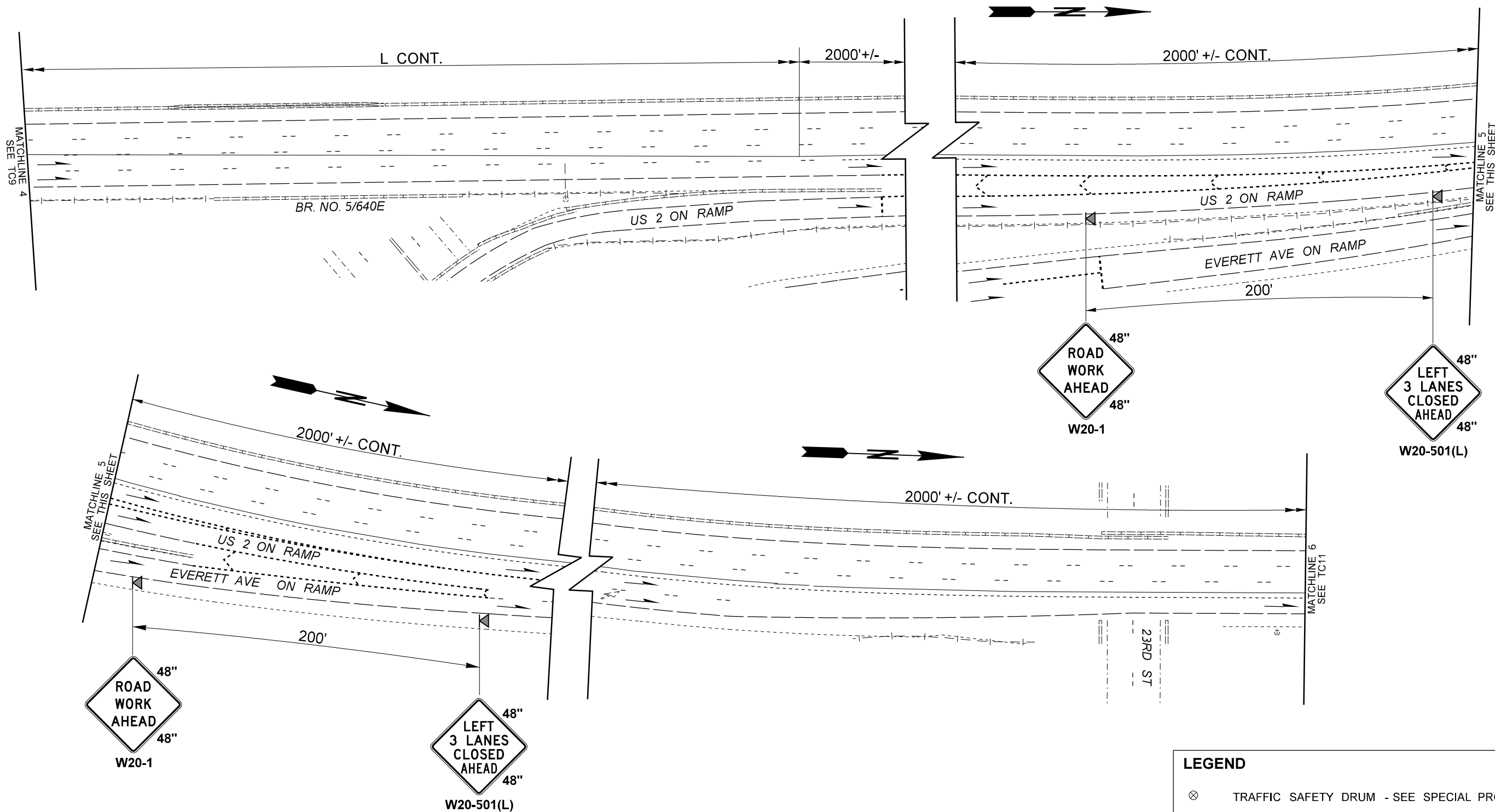
- ⊗ TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- ▤ CONSTRUCTION SIGN CLASS B
- ⊠ TEMORARY SIGN LOCATION (5' MIN HEIGHT)
- ⇨ SEQUENTIAL ARROW SIGN
- ⊠ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn									
TIME	4:02:52 PM					REGION NO.	STATE	FED.AID PROJ.NO.	
DATE	5/23/2022					10	WASH		
PLOTTED BY	huttong					JOB NUMBER		LOCATION NO.	
DESIGNED BY	P. BARONA					22A012			
ENTERED BY	P. BARONA					CONTRACT NO.		DATE	
CHECKED BY	G. HUTTON								
PROJ. ENGR.	M. KAYANDA								
REGIONAL ADM.	M. COTTON	REVISION	DATE	BY				P.E. STAMP BOX	P.E. STAMP BOX

I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT
TRAFFIC CONTROL PLANS

PLAN REF NO
TC9

SHEET
30
OF
40
SHEETS



NOTES:

1. REFER TO TC2 FOR TRAFFIC CONTROL TABLES
2. DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
3. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED

I-5 NORTHBOUND FULL CLOSURE
I-5 MP 191.53 TO MP 194.66 NOT TO SCALE

LEGEND	
	TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
	CONSTRUCTION SIGN CLASS B
	TEMORARY SIGN LOCATION (5' MIN HEIGHT)
	SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN

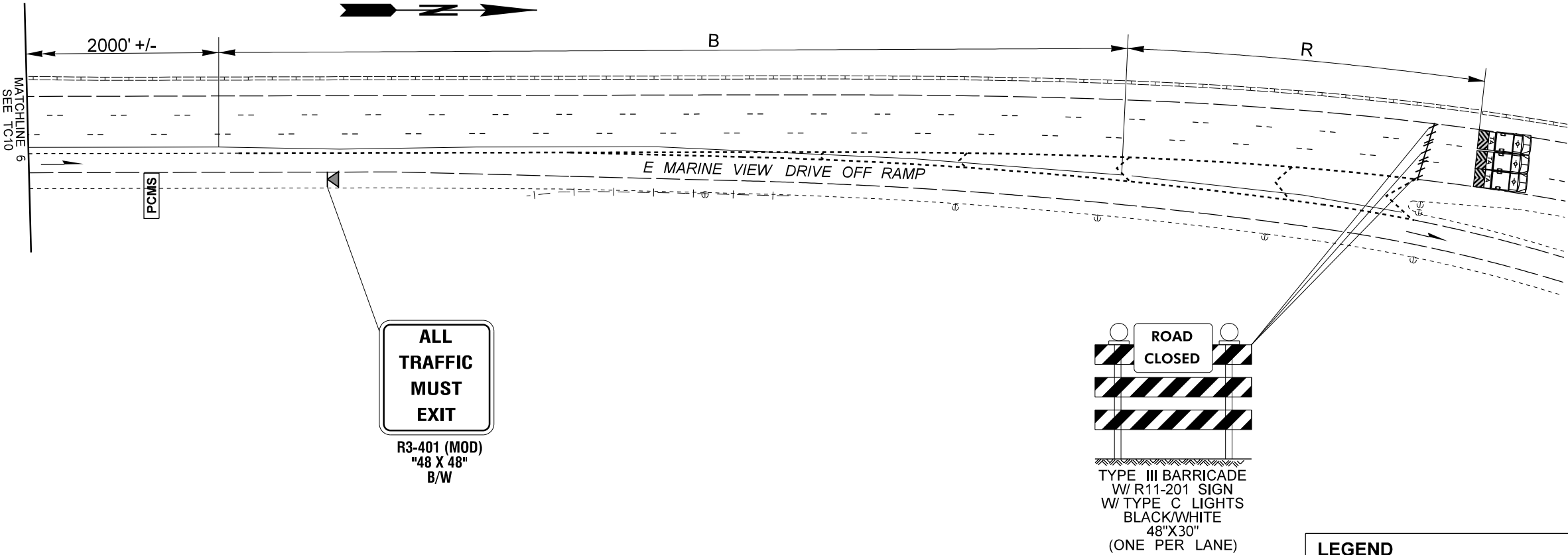
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TIME	4:02:54 PM			10		WASH								TC10	
DATE	5/23/2022									Washington State Department of Transportation		TRAFFIC CONTROL PLANS		SHEET 31 OF 40 SHEETS	
DESIGNED BY	P. BARONA														
ENTERED BY	P. BARONA									DATE		DATE			
CHECKED BY	G. HUTTON														
PROJ. ENGR.	M. KAYANDA									P.E. STAMP BOX		P.E. STAMP BOX			
REGIONAL ADM.	M. COTTON														
		REVISION		DATE		BY									

PCMS	
1	2
1-5 NB WILL BE CLOSED	DAY HOUR PM- HOUR AM
2.0 SEC	2.0 SEC

TO BE USED 5 DAYS IN
ADVANCE OF CLOSURE

PCMS	
1	2
1-5 NB CLOSED	TRAFFIC MUST EXIT
2.0 SEC	2.0 SEC


TO BE USED DURING
CLOSURE



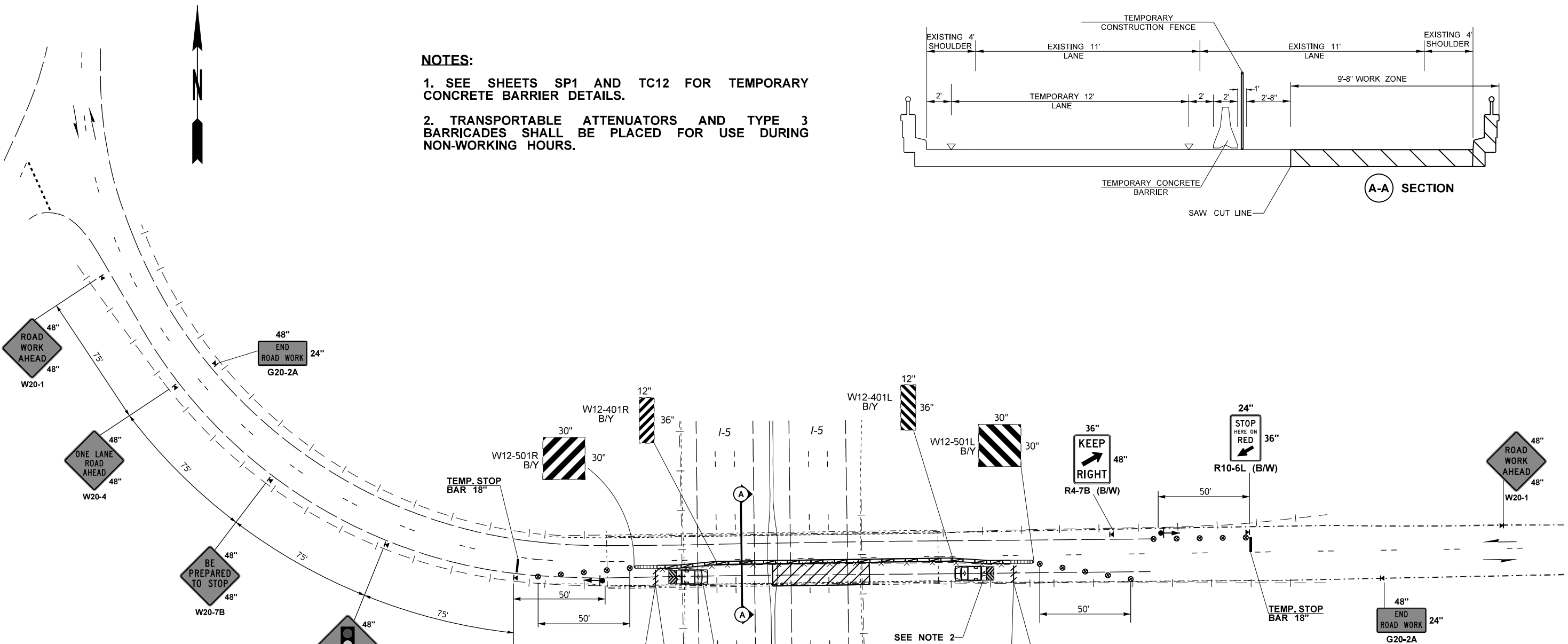
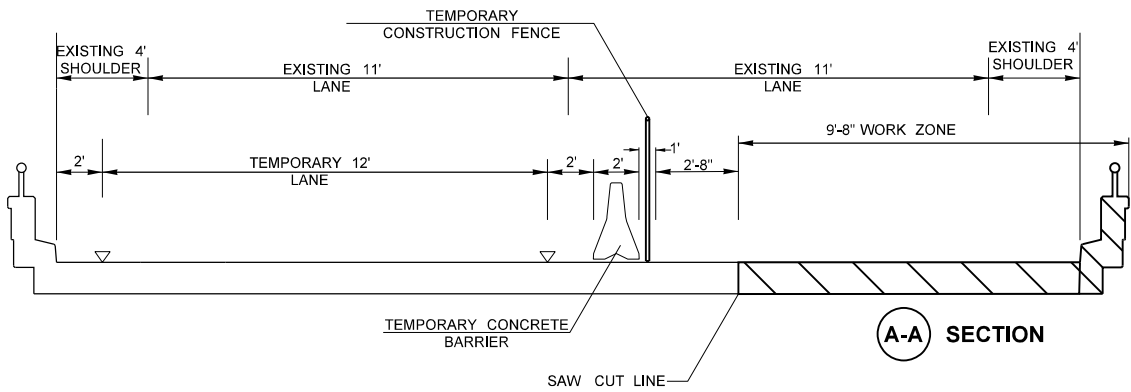
NOTES:

- REFER TO TC2 FOR TRAFFIC CONTROL TABLES
- DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMP SHALL BE 500' MINIMUM.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED

I-5 NORTHBOUND FULL CLOSURE
I-5 MP 191.53 TO MP 194.66 **NOT TO SCALE**

FILE NAME T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn									
TIME 4:02:57 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.			
DATE 5/23/2022				JOB NUMBER 22A012					
PLOTTED BY huttong				CONTRACT NO.	LOCATION NO.				
DESIGNED BY P. BARONA									
ENTERED BY P. BARONA									
CHECKED BY G. HUTTON									
PROJ. ENGR. M. KAYANDA									
REGIONAL ADM. M. COTTON	REVISION	DATE	BY						
					P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	
 Washington State Department of Transportation							I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT		PLAN REF NO TC11
							TRAFFIC CONTROL PLANS		SHEET 32 OF 40 SHEETS

- NOTES:**
- 1. SEE SHEETS SP1 AND TC12 FOR TEMPORARY CONCRETE BARRIER DETAILS.
 - 2. TRANSPORTABLE ATTENUATORS AND TYPE 3 BARRICADES SHALL BE PLACED FOR USE DURING NON-WORKING HOURS.

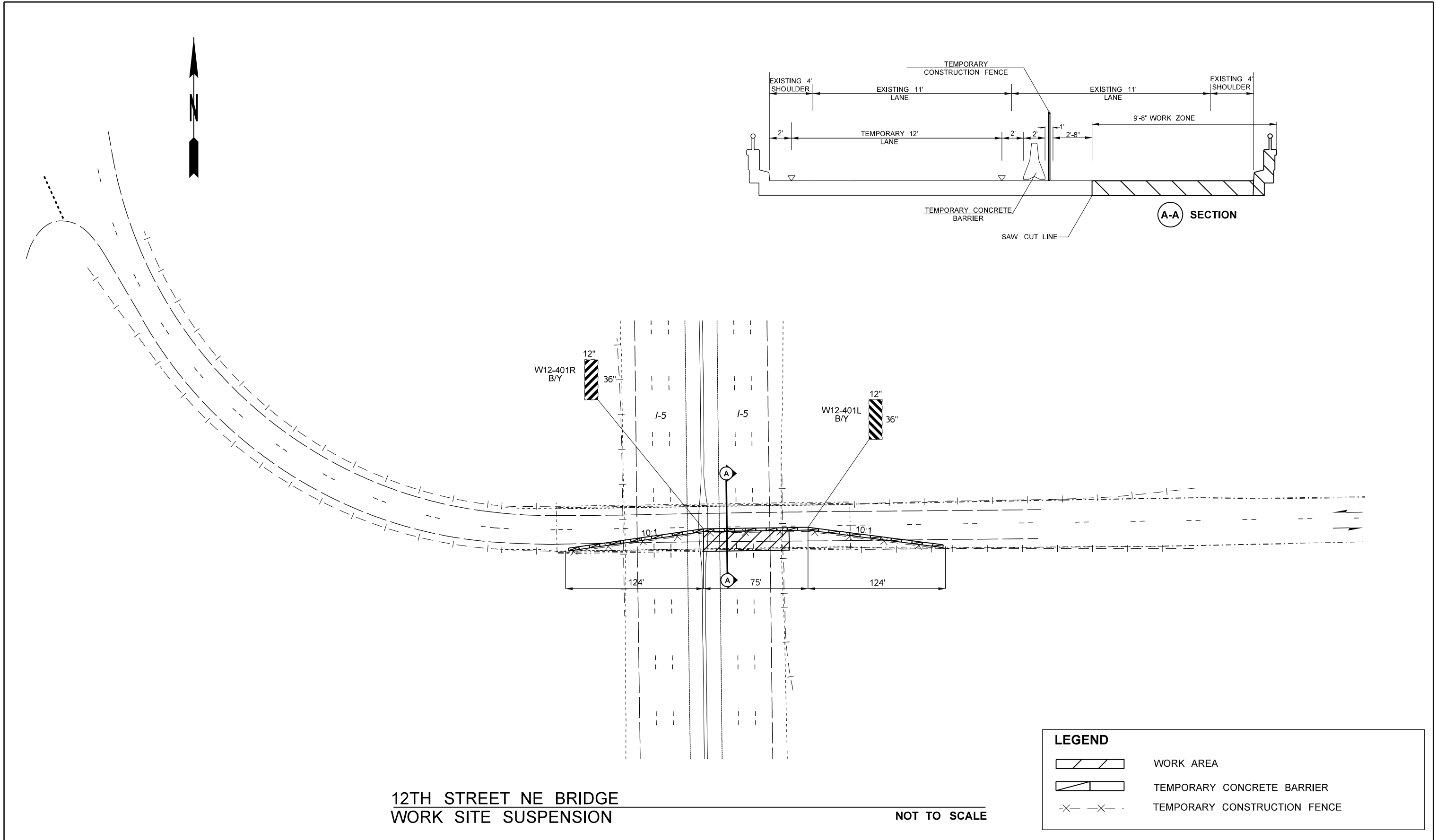


LEGEND


- WORK AREA
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- TRAFFIC SAFETY DRUM-SEE SPECIAL PROVISIONS
- CONSTRUCTION SIGN CLASS B
- PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
- TYPE III BARRICADE
- TRANSPORTABLE ATTENUATOR
- TEMPORARY CONSTRUCTION FENCE

12TH STREET NE BRIDGE
SINGLE LANE, TWO WAY TRAFFIC CONTROL WITH TEMPORARY SIGNAL NOT TO SCALE

FILE NAME										T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn																																					
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DATE		5/23/2022						10		WASH																												TC14									
PLOTTED BY		huttong						JOB NUMBER		22A012																												SHEET									
DESIGNED BY		P. SCHNEIDER						CONTRACT NO.				LOCATION NO.						TRAFFIC CONTROL PLANS										35																			
ENTERED BY		P.SCHNEIDER																										OF																			
CHECKED BY		G.HUTTON																										40																			
PROJ. ENGR.		M. KAYANDA																SHEETS																													
REGIONAL ADM.		M. COTTEN		REVISION				DATE		BY		DATE						P.E. STAMP BOX																													



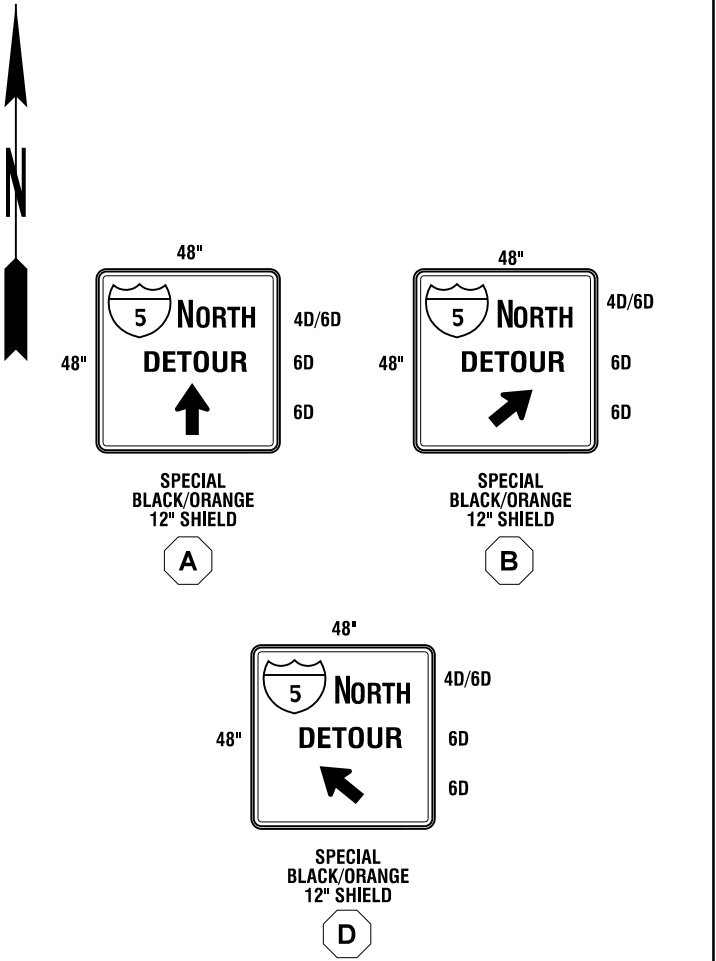
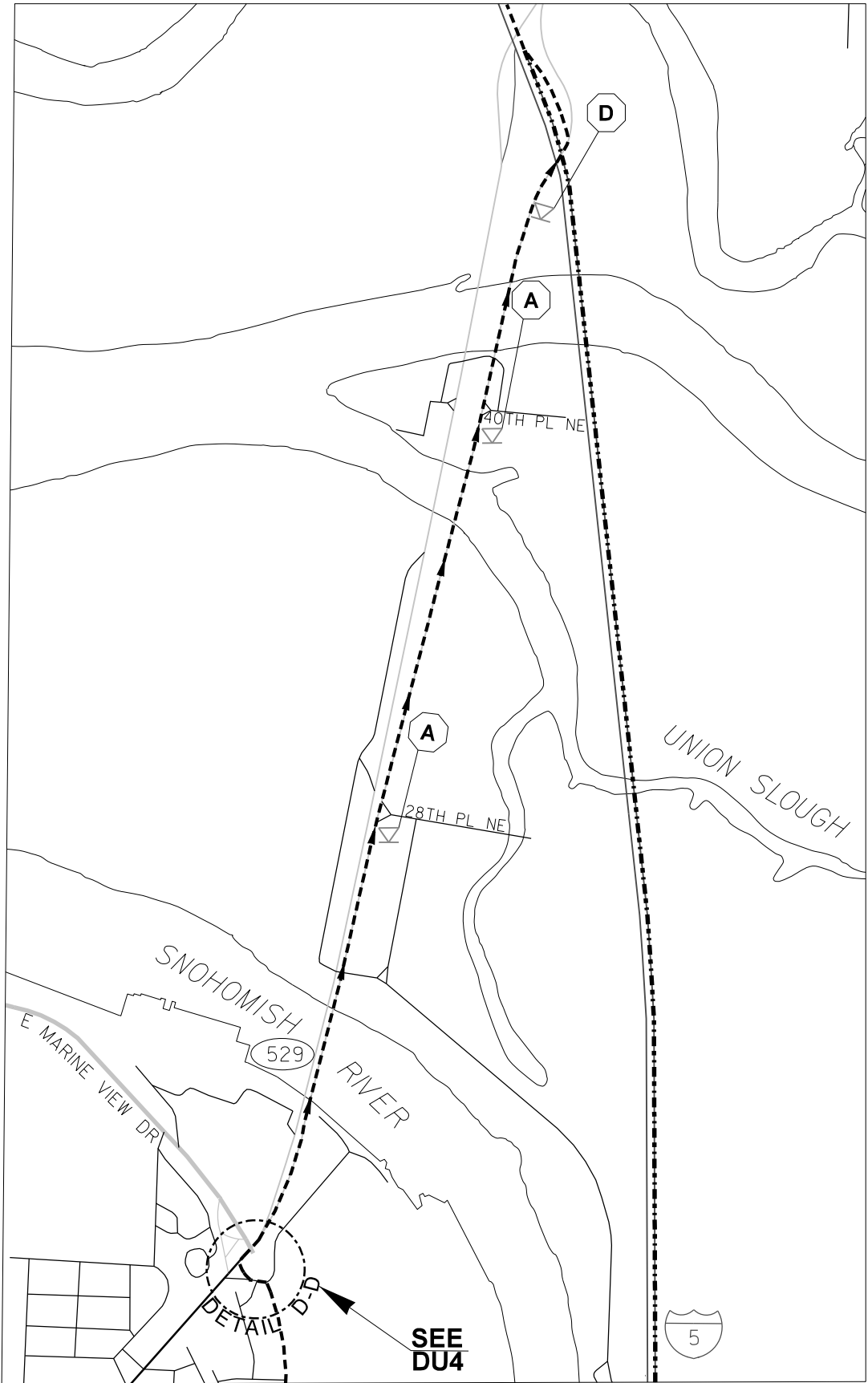
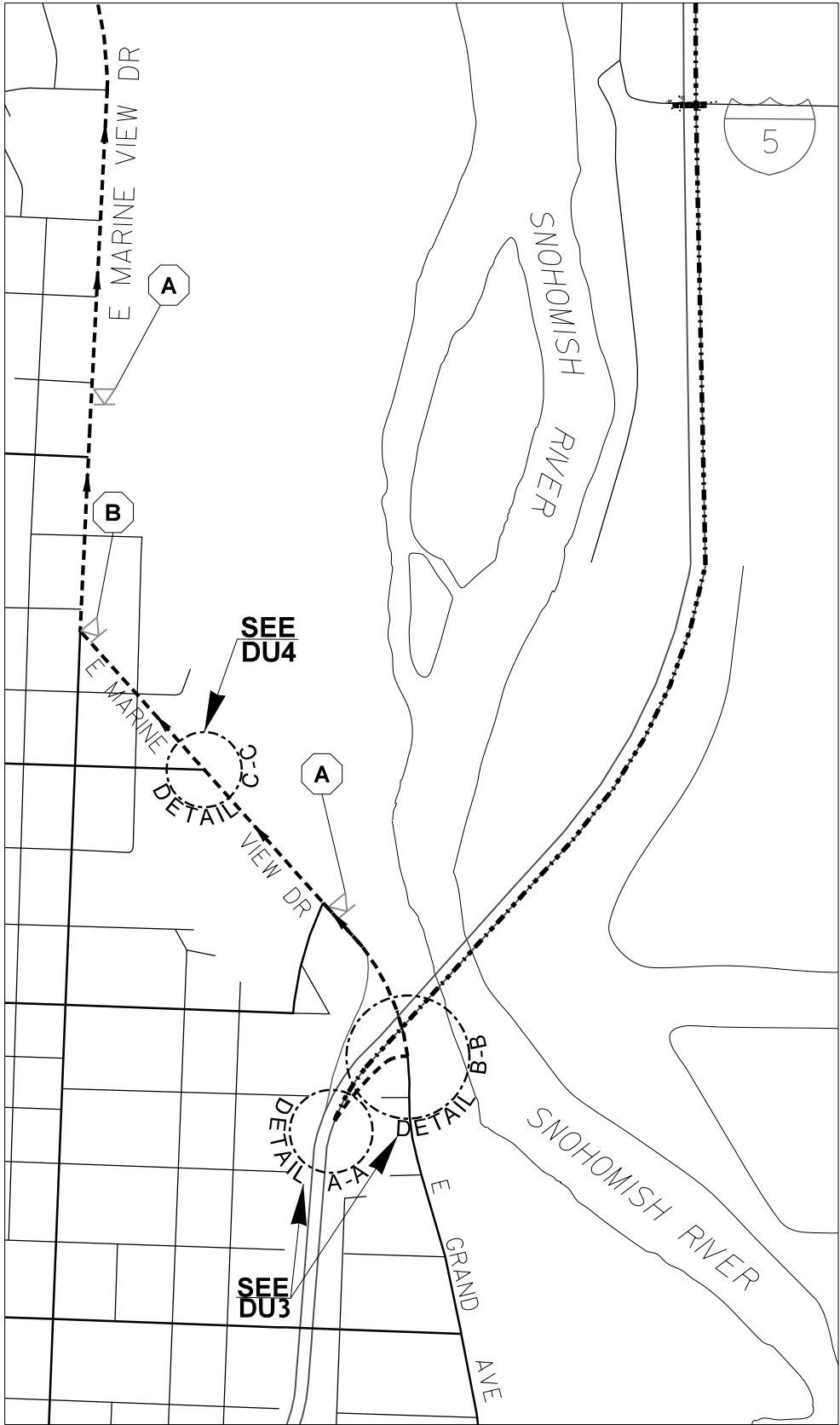
FILE NAME T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_TC.dgn										
TIME 4:03:09 PM						REGION NO. STATE		FED.AID PROJ.NO.		
DATE 5/23/2022						10 WASH				PLAN REF NO
PLOTTED BY huttong										TC15
DESIGNED BY P. SCHNEIDER						JOB NUMBER		LOCATION NO.		SHEET 36 OF 40 SHEETS
ENTERED BY P.SCHNEIDER						22A012				
CHECKED BY G.HUTTON						CONTRACT NO.				
PROJ. ENGR. M. KAYANDA										
REGIONAL ADM. M. COTTEN		REVISION		DATE		BY		DATE		TRAFFIC CONTROL PLANS
								P.E. STAMP BOX		



Washington State
Department of Transportation

I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT

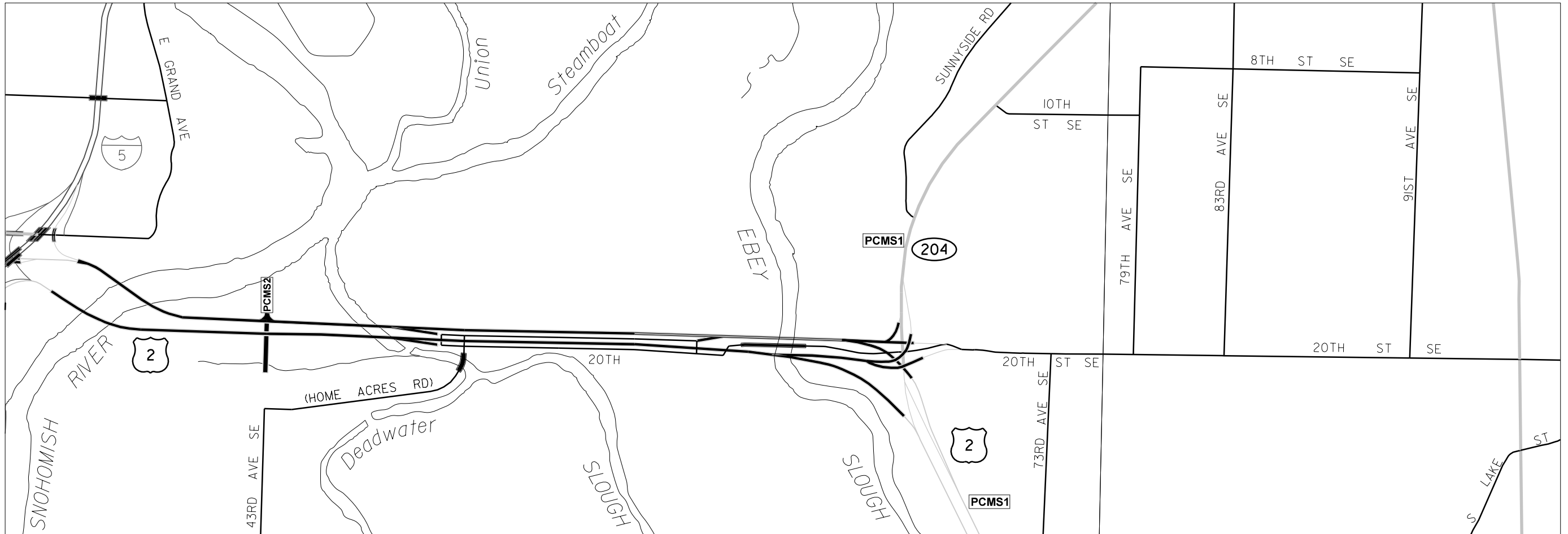
TRAFFIC CONTROL PLANS



I-5 Northbound Full Closure
Detour Route NTS

LEGEND	
	DETOUR ROUTE
	CLOSED ROUTE
	TYPE 3 BARRICADE
	TRAFFIC SAFETY DRUM
	CLASS B SIGN
	UNIFORMED POLICE OFFICER
	PCMS PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME		T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_DU1.dgn		FED.AID PROJ.NO.		Washington State Department of Transportation		I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT		PLAN REF NO DU1	
TIME		4:03:20 PM		REGION NO.		STATE		SHEET		37	
DATE		5/23/2022		10		WASH		OF		40	
PLOTTED BY		huttong		JOB NUMBER		22A012		SHEETS		40	
DESIGNED BY		P. BARONA		CONTRACT NO.		LOCATION NO.		DETOUR PLANS			
ENTERED BY		P. BARONA									
CHECKED BY		G. HUTTON									
PROJ. ENGR.		M. KAYANDA									
REGIONAL ADM.		M. COTTON									
		REVISION		DATE		BY					



PCMS 1	
1	2
I-5 NB CLOSED AHEAD	USE ALT ROUTES
2.0 SEC	2.0 SEC

LOCATE +/- 1/2 MILE IN
ADVANCE TO US-2/SR
204 INTERCHANGE

LOCATE ON WIDE
PULLOUT ON WB US-2
TRESTLE LOCATED 1/2
MILE EAST OF I-5

PCMS MAY BE TRUCK
MOUNTED; IF SO, THE
THREE TRANSVERSE
DRUMS ARE OPTIONAL.

LOCATE PCMS PER
WSDOT STANDARD
SPECIFICATION
1-10.3(3)C.

ALL PCMS SIGNS
DISPLAY THE SAME
MESSAGE.

PCMS 2	
1	2
I-5 NB CLOSED AHEAD	FOLLOW DETOUR
2.0 SEC	2.0 SEC

LOCATE ON WIDE
PULLOUT AREA ON WB
US-2 TRESTLE LOCATED
1/2 MILE EAST OF I-5

I-5 Northbound Full Closure Detour Route

NTS

LEGEND

- DETOUR ROUTE
- CLOSED ROUTE
- /// TYPE 3 BARRICADE
- ⊗ TRAFFIC SAFETY DRUM
- ⊠ CLASS B SIGN
- ★ UNIFORMED POLICE OFFICER
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME	T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_DU.dgn									
TIME	4:03:21 PM									
DATE	5/23/2022									
PLOTTED BY	huttong									
DESIGNED BY	P. BARONA									
ENTERED BY	P. BARONA									
CHECKED BY	G. HUTTON									
PROJ. ENGR.	M. KAYANDA									
REGIONAL ADM.	M. COTTON									
		REVISION		DATE		BY				

REGION NO.	STATE
10	WASH
JOB NUMBER	
22A012	
CONTRACT NO.	

FED.AID PROJ.NO.	
LOCATION NO.	

P.E. STAMP BOX

P.E. STAMP BOX



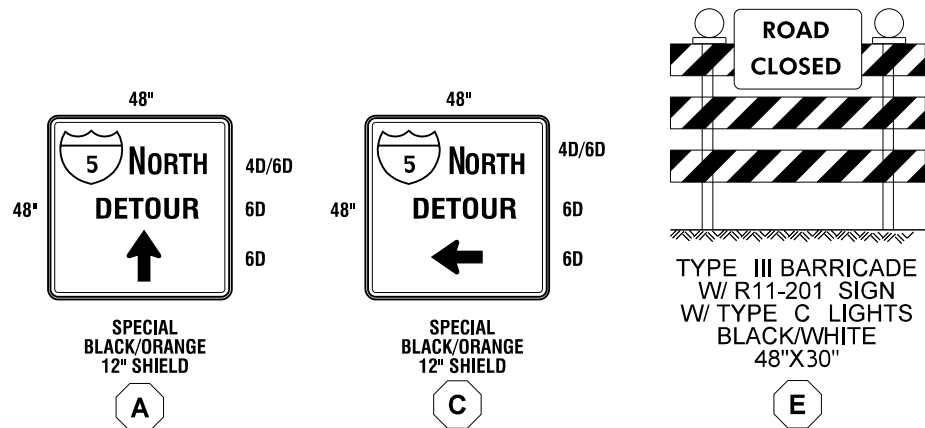
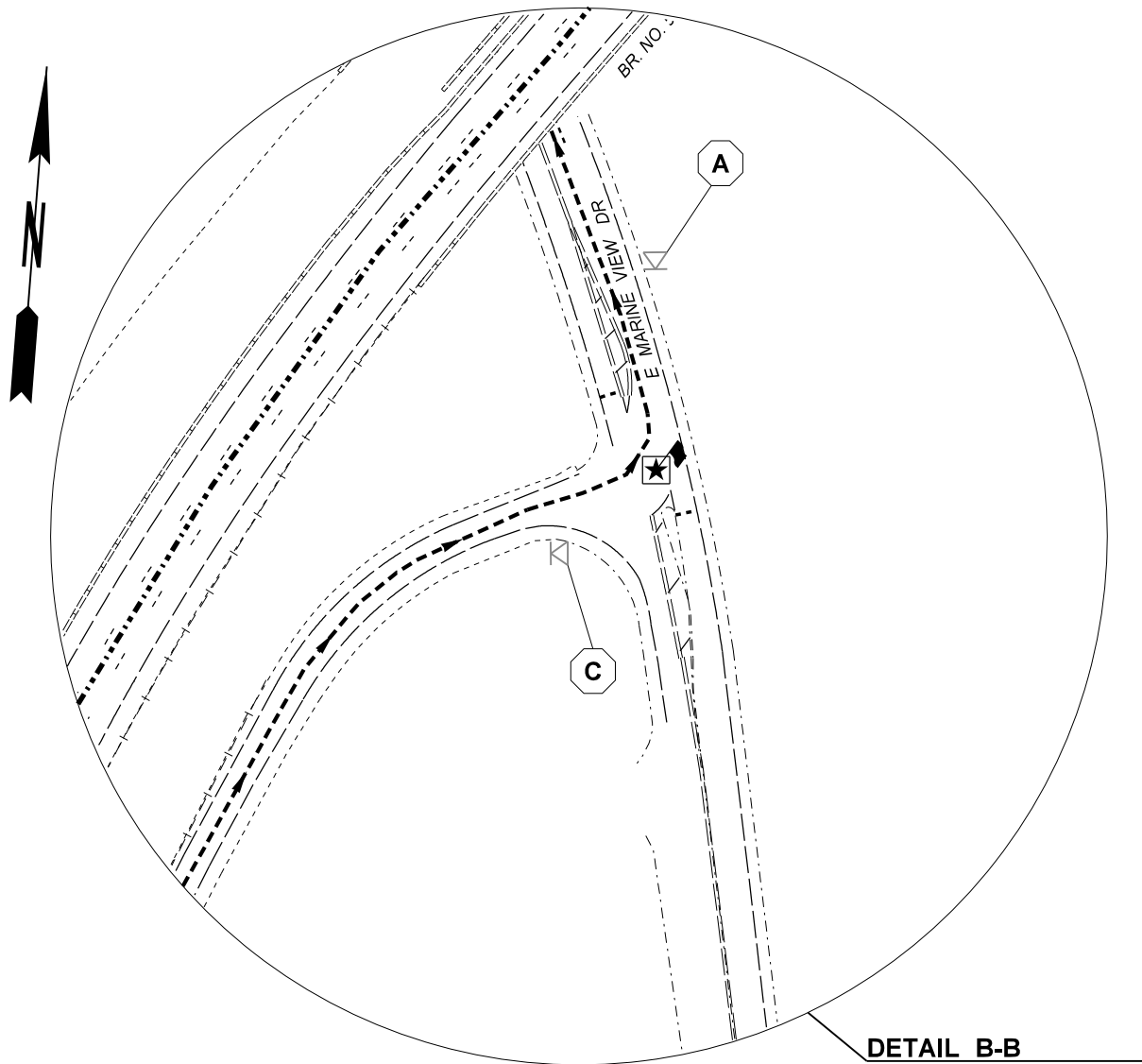
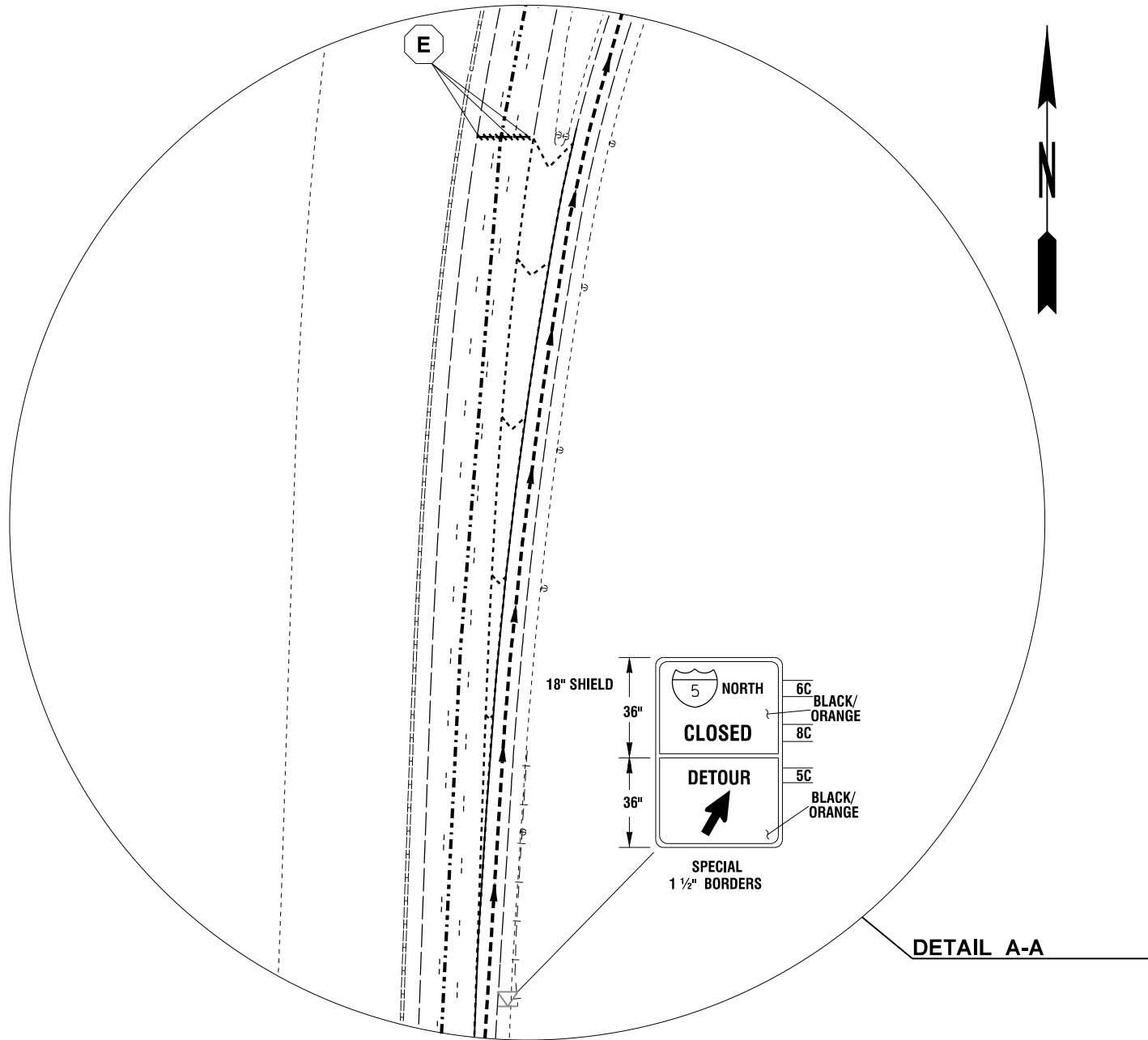
Washington State
Department of Transportation

I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT

DETOUR PLANS


PLAN REF NO
DU2

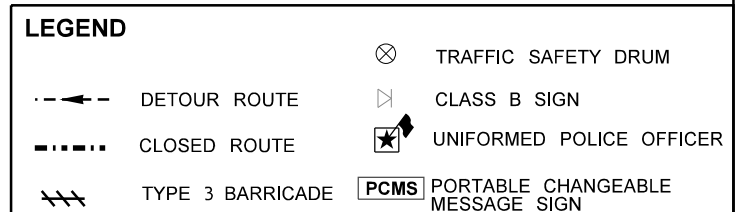
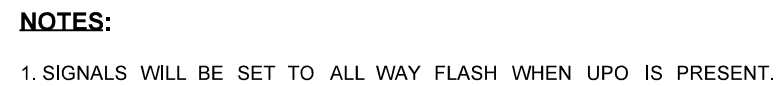
SHEET
38
OF
40
SHEETS




I-5 Northbound Full Closure Detour Route NTS

LEGEND	
	DETOUR ROUTE
	CLOSED ROUTE
	TYPE 3 BARRICADE
	TRAFFIC SAFETY DRUM
	CLASS B SIGN
	UNIFORMED POLICE OFFICER
	PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME		T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge 1/2 Girder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_DU.dgn													
TIME		4:03:22 PM						REGION NO.		STATE		FED.AID PROJ.NO.			
DATE		5/23/2022						10		WASH				PLAN REF NO	
PLOTTED BY		huttong												DU3	
DESIGNED BY		P. BARONA						JOB NUMBER				 Washington State Department of Transportation		I-5 NB 12TH STREET NE BRIDGE GIRDER REPLACEMENT	
ENTERED BY		P. BARONA						22A012							
CHECKED BY		G. HUTTON						CONTRACT NO.		LOCATION NO.				DETOUR PLANS	
PROJ. ENGR.		M. KAYANDA													
REGIONAL ADM.		M. COTTON		REVISION		DATE		BY				DATE		P.E. STAMP BOX	
												DATE		P.E. STAMP BOX	



FILE NAME										T:\412420\XL6506 - I-5 - NB 12th Street NE Bridge % Glrder Replacement\PSE - Plans, Specs & Est(PSE) PLN - Plans\100% Plans\XL6506_PS_DU.dgn																			
TIME		4:03:23 PM						REGION NO.		STATE		FED.AID PROJ.NO.										PLAN REF NO.							
DATE		5/23/2022						10		WASH												DU4							
PLOTTED BY		huttong						JOB NUMBER														SHEET							
DESIGNED BY		P. BARONA						CONTRACT NO.				LOCATION NO.										40							
ENTERED BY		P. BARONA																				OF							
CHECKED BY		G. HUTTON																				40							
PROJ. ENGR.		M. KAYANDA																				SHEETS							
REGIONAL ADM.		M. COTTON																											
				REVISION				DATE				BY																	
										DATE										DATE									
										P.E. STAMP BOX										P.E. STAMP BOX									



Washington State
Department of Transportation

I-5
NB 12TH STREET NE BRIDGE
GIRDER REPLACEMENT

DETOUR PLANS











Plans Certification 22A012 XL-6506 I-5 NB 12th Street NE Bridge Girder Replacement

Final Audit Report

2022-05-26

Created:	2022-05-26
By:	Dave Schrader (SchraderD@wsdot.wa.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAA2bF-rBUZww7rKmXX5HPO121bUsAY0jEu

"Plans Certification 22A012 XL-6506 I-5 NB 12th Street NE Bridge Girder Replacement" History

-  Document created by Dave Schrader (SchraderD@wsdot.wa.gov)
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-  Document emailed to Masoud Kayanda (kayandm@wsdot.wa.gov) for signature
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Signature Date: 2022-05-26 - 6:18:03 PM GMT - Time Source: server- IP address: 164.110.164.114
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Document e-signed by Geoffrey D. Swett (swettg@wsdot.wa.gov)

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2022-05-26 - 7:11:05 PM GMT

